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GUIDE TO RESEARCH IN AIR POLLUTION. PROJECTS ACTIVE IN CALENDAR YEAR 1962

Public Health Service
Washington, D. C.

1962

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GUIDE TO RESEARCH IN AIR POLLUTION

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U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
Public Health Service

85

GUIDE TO

RESEARCH IN AIR POLLUTION

PROJECTS ACTIVE
IN CALENDAR YEAR
1962

Fifth Edition

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Division of Air Pollution
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INTRODUCTION

This Fifth Edition of the Guide to Research in Air Pollution is a joint publication by the American Society of Mechanical Engineers and the Public Health Service, U. S. Department of Health, Education, and Welfare. It covers projects active in calendar year 1962. Its preparation was aided and directed by the Research Subcommittee of the ASME Committee on Air Pollution Controls consisting of Mr. J. D. Sensenbaugh, Chairman, Mr. C. E. Billings, Dr. C. A. Bishop, Dr. W. L. Faith, Mr. W. C. L. Hemeon, Mr. E. R. Kaiser, and Mr. C. E. Zimmer. Data were received, correlated, arranged, and printed by the Public Health Service Division of Air Pollution, Washington, D. C.

The first ASME survey on air pollution research was published in Mechanical Engineering, Volume 75, pages 712 through 714, September 1953. The second, third, and fourth editions were published in separate reports by the ASME.

Neither the American Society of Mechanical Engineers Committee on Air Pollution Controls nor the Public Health Service assumes responsibility for the accuracy of the information on the questionnaires returned to it.

James R. Chapman, Chairman
Committee on Air Pollution
Controls
American Society of
Mechanical Engineers

Vernon G. MacKenzie, Chief
Division of Air Pollution
U. S. Public Health Service

HOW TO USE THE

GUIDE TO RESEARCH IN AIR POLLUTION

This Guide is divided into four sections, the first summarizing the status of air pollution research as a whole, the second listing individual projects under investigation during 1962, and the third and fourth sections providing indexes to these projects by subject and by investigator. The introductory information of each section explains the arrangement of information presented therein.

▼

SECTION 1

AIR POLLUTION RESEARCH IN THE UNITED STATES - 1962

This report is a summary of air pollution research now in progress in the United States. The information concerning these projects was obtained from questionnaires (Fig. 1) sent to universities, Federal, State, and local governmental agencies, industrial organizations, private organizations, and individuals believed to be actively engaged in such activities. Additional sources of information were provided by some of the respondents to the questionnaires.

Since the information in this report was obtained from questionnaires returned by a large number of investigators, neither the American Society of Mechanical Engineers nor the Public Health Service, U. S. Department of Health, Education, and Welfare can assume responsibility for its validity. Those associated with the compilation of this material believe that the information is representative of the total effort currently being expended in air pollution research.

A brief summary of the air pollution research activities in the United States is given below. Detailed information relative to the individual projects is provided in Section 2 of this report. Indexes of project titles and principal investigators are presented in Sections 2 and 3, respectively.

Information was received concerning 466 projects (Table 1). For 327 of them the amount of money funded for 1962 totalled $13,192,000. If one were to assume that this ratio of funds to number of projects applies to all projects reported, a reasonable estimate of the total expenditures for all 466 projects would be approximately $19 million. Since there are undoubtedly additional research activities for which no information was obtained, an estimate of some $20 million a year spent on air pollution research is probably realistic.

Table 1 shows that much of the research (64% of the projects reported) is conducted either by universities or the Federal Government, representing an expenditure of nearly $9 million or 68% of the total.

Table 2 shows the type of organizations providing the financial support of air pollution research activities. Because some projects receive multiple support, the totals shown in this table do not agree with those in Table 1. The table indicates that the Federal Government provides a substantial part of the total financial support. It should be mentioned, however, that the policy of many industrial organizations does not permit the release of information concerning funding of projects.

A summary of the research activities in various subject areas is presented in Table 4. The subject area designations are somewhat arbitrary and in some cases overlap. Assignment of individual projects to one of these categories involves a degree of subjectivity. The data in this table indicate that considerable research is directed toward control devices or methods. Because funding data was available for only slightly over half (47) of the 85 projects reported, the figure of $1.8 million is probably an underestimate of the actual amount spent in this area.

Studies relative to a better understanding of the chemistry and physics of the atmosphere and source and source emission studies together represented an expenditure of more than $3 million. Research projects directed toward studying the effects of air pollution upon the health of man and animals, i.e., epidemiologic, epizootiologic, physiologic-pathologic (man or animal), and toxicologic represented an expenditure of about $2.4 million or roughly 18 percent of the total.

Table 7 is a summary of the air pollution research activities listed according to the state in which the conducting organization is located. As one would expect, California, New York, and Ohio account for a sizable portion of the total, both in number of projects (206) and amount funded ($6,792,000).

TABLE 1

AIR POLLUTION RESEARCH PROJECTS - 1962

CLASSIFICATION BY ORGANIZATION CONDUCTING RESEARCH

Organization Conducting Air Pollution Research	All Projects Reported		Projects Reporting 1962 Funding		
	Number of Projects	Percent of Total	Number of Projects	Funding (Dollars)	Percent of Total Funding
Universities	183	40	149	4,826,000	37
Federal Agencies	113	24	96	4,038,000	31
State Agencies	18	4	8	147,000	1
Local Agencies	33	7	16	1,070,000	8
Industrial Organizations	67	14	30	2,006,000	15
Private (Non-Industrial)	52	11	28	1,105,000	8
TOTALS	466	100	327	13,192,000	100

TABLE 2

AIR POLLUTION RESEARCH PROJECTS - 1962

CLASSIFICATION BY ORGANIZATION SUPPORTING RESEARCH

Organization Supporting Air Pollution Research	All Projects Reported		Projects Reporting 1962 Funding		
	Number of Projects	Percent of Total	Number of Projects	Funding (Dollars)	Percent of Total Funding
Universities	24	5	17	548,000	4
Federal Agencies	263	53	227	8,866,000	62
State Agencies	29	6	18	1,027,000	7
Local Agencies	29	6	11	640,000	5
Industrial Organizations	90	18	38	1,890,000	13
Private (Non-Industrial)	20	4	11	386,000	3
Not Classified	41	8	25	799,000	6
TOTALS	496	100	347	14,156,000	100

TABLE 3

AIR POLLUTION RESEARCH PROJECTS - 1962

CLASSIFICATION BY SUPPORT TO ORGANIZATIONS CONDUCTING RESEARCH

Organization Conducting Research	Number of Projects Supported by							
	Universities	Federal Agencies	State Agencies	Local Agencies	Industrial Organizations	Private (Non-Industrial)	Not Classified	Totals
Universities	24	120	10	4	6	9	23	196
Federal Agencies		113						113
State Agencies		5	14	1				20
Local Agencies		4	5	24			2	35
Industrial Organizations		5			58		5	68
Private (Non-Industrial)		16			26	11	11	64
TOTALS	24	263	29	29	90	20	41	496

TABLE 4
AIR POLLUTION RESEARCH PROJECTS - 1962
CLASSIFICATION BY SUBJECT AREAS

Subject Area	All Projects Reported		Projects Reporting 1962 Funding		
	Number of Projects	Percent of Total	Number of Projects	Funding (Dollars)	Percent of Total Funding
Agriculture	14	3	12	302,000	2
Air Pollution Surveys and Survey Techniques	40	9	29	602,000	5
Atmospheric Monitoring and Network Operations	11	2	8	566,000	4
Biochemical	35	8	24	1,046,000	8
Chemistry and Physics of the Atmosphere	44	9	36	1,578,000	12
Control Devices or Methods	85	19	47	1,831,000	14
Demographic	2		2	68,000	1
Epidemiologic	2		2	273,000	2
Epizootiologic	1				
Gaseous Pollutant Sampling and Analysis	25	5	17	518,000	4
Instrumentation Development	29	6	20	234,000	2
Meteorology	24	5	21	1,088,000	8
Miscellaneous Effects (Corrosion, odors, particulate retention, etc.)	8	2	5	116,000	1
Miscellaneous Studies (Economics, statistics, legal, etc.)	18	4	11	363,000	3
Particulate Sampling and Analysis	12	3	7	273,000	2
Physiologic-pathologic (animal)	22	5	19	1,091,000	8
Physiologic-pathologic (man)	29	6	23	915,000	7
Radioactivity	13	3	6	450,000	3
Source and Source Emission Studies	50	11	36	1,722,000	13
Toxicologic	2		2	156,000	1
TOTALS	466	100	327	13,192,000	100

TABLE 5
AIR POLLUTION RESEARCH PROJECTS - 1962
CLASSIFICATION BY SUBJECT AREA AND ORGANIZATION CONDUCTING RESEARCH

Subject Area	NUMBER OF PROJECTS REPORTING						
	Universities	Federal Agencies	State Agencies	Local Agencies	Industrial Organizations	Private (other than industrial)	Grand Total
Agriculture	10	2		1		1	14
Air Pollution Surveys and Survey Techniques	13	10	5	5	2	5	40
Atmospheric Monitoring and Network Operations	1	7		2	1		11
Biochemical	19	3		2		11	35
Chemistry and Physics of the Atmosphere	26	7		4	4	3	44
Control Devices or Methods	18	14	4	4	32	13	85
Demographic	1	1					2
Epidemiologic	2						2
Epizootiologic	1						1
Gaseous Pollutant Sampling and Analysis	13	8		1	2	1	25
Instrumentation Development	7	10	3	1	7	1	29
Meteorology	10	11			2	1	24
Miscellaneous Effects (Corrosion, odors, particulate retention,etc.)	2	1		1	2	2	8
Miscellaneous Studies (Economics, statistics, legal, etc.)	8	3	1	1	4	1	18
Particulate Sampling and Analysis	4	1	1	3	1	2	12
Physiologic-pathologic (animal)	11	6		1		4	22
Physiologic-pathologic (man)	21	3	2		1	2	29
Radioactivity	6	7					13
Source and Source Emission Studies	8	19	2	7	9	5	50
Toxicologic	2						2
TOTALS	183	113	18	33	67	52	466

TABLE 6

AIR POLLUTION RESEARCH PROJECTS - 1962

CLASSIFICATION BY TYPE OF SUPPORT

Organization Conducting Research	Number of Projects Supported by							
	Grant Only	Contract Only	Internal	Grant and Contract	Grant and Internal	Contract and Internal	Other	Totals
Universities	91	51	21	4	8	2	6	183
Federal Agencies	1	31	76			1	4	113
State Agencies	3	1	12				2	18
Local Agencies	4	3	21				5	33
Industrial Organizations	1	12	49	1			4	67
Private (Non-Industrial)	10	19	14	1		7	1	52
TOTALS	110	117	193	6	8	10	22	466

TABLE 7
CLASSIFICATION BY LOCATION OF ORGANIZATION CONDUCTING RESEARCH

State	NUMBER OF PROJECTS								PROJECTS REPORTING 1962 FUNDING		
	Universities	Federal Agencies	State Agencies	Local Agencies	Industrial Organizations	Private (Non-Industrial)	Totals	Percent of Total	Number of Projects	Funding (Dollars)	Percent of Total Funding
Alabama	1						1	0.2	1	173,000	1.3
Arizona	1						1	0.2	1	8,000	0.1
Arkansas	2						2	0.4	2	70,000	0.5
California	40	1	2	15	12	4	74	16.0	56	2,887,000	21.8
Colorado	5					1	6	1.3	5	206,000	1.6
Connecticut					3		3	0.6			
District of Columbia		41				2	43	9.2	34	1,263,000	9.6
Florida	12			1			13	2.8	12	142,000	1.1
Georgia	4	1					5	1.1	5	218,000	1.6
Idaho	1						1	0.2	1	8,000	0.1
Illinois	12			1	4	8	25	5.5	11	272,000	2.1
Kansas	2						2	0.4	2	16,000	0.1
Louisiana	5						5	1.1	3	134,000	1.0
Maryland	3	6			1		10	2.1	2	91,000	0.7
Massachusetts	8				4		12	2.6	5	422,000	3.2
Michigan	12				4	4	20	4.3	18	915,000	6.9
Minnesota	4				2		6	1.3	5	331,000	2.5
Missouri						1	1	0.2	1	50,000	0.4
Montana					1		1	0.2			
Nebraska	1						1	0.2	1	28,000	0.2
Nevada		1					1	0.2			
New Jersey	4		1		4	1	10	2.1	5	86,000	0.7
New York	14	2	11	6	7	17	57	12.3	24	1,366,000	10.4
North Carolina	4						4	0.9	4	55,000	0.4
Ohio	8	59		9	2	8	86	18.5	75	2,539,000	19.2
Oklahoma						1	1	0.2			
Oregon	3						3	0.6	3	22,000	0.2
Pennsylvania	10	1	2	1	20	2	36	7.7	22	1,123,000	8.5
Rhode Island						1	1	0.2			
South Carolina	1						1	0.2	1	17,000	0.1
Tennessee	2	1					3	0.6	3	112,000	0.8
Texas	8				1	1	10	2.1	9	213,000	1.6
Utah	5				1		6	1.3	6	89,000	0.7
Virginia	1						1	0.2	1	9,000	0.1
Washington	9		2			1	12	2.6	8	308,000	2.3
West Virginia					1		1	0.2			
Wisconsin	1						1	0.2	1	21,000	0.2
TOTALS	183	113	18	33	67	52	466	100.0	327	13,192,000	100.0

SECTION 2

AIR POLLUTION RESEARCH PROJECTS - 1962

The projects are listed alphabetically by states and within each state they are alphabetized by the name of organization conducting the research. Projects are numbered consecutively and these numbers are included in the Subject Index (Section 3) and the Investigators Index (Section 4).

Each project is listed in the following format; a blank entry indicates that the information was not reported:

Line 1:

Project Number - This number, assigned merely as a reference, appears both preceding and following the name of the organization conducting research.

Organization Conducting Research - Included is the name of the organization and location, both city and state.

Line 2:

Project Title - A brief descriptive title of the research.

Line 3:

Investigator - The name and the address of principal investigator.

Line 4:

Sponsor(s) - The organization(s) providing financial support for the project.

Line 5:

Project Data

Starting Date - The year the project was originated.

Type of Support - Whether support is by Grant, Contract, Internal, or more than one type.

Amount Support - Indicates the amount of money funded for 1962.

001 ALABAMA — MEDICAL COLLEGE OF ALABAMA — BIRMINGHAM ALA 001
TITLE — AN EPIDEMIOLOGICAL STUDY OF PULMONARY FUNCTION AND DISEASE SYMPTOMS
INVESTIGATOR — B.V.BRANSCOMB — MED COL OF ALABAMA — 1919 7TH AVE S — BIRMINGHAM ALA
SPONSOR — USPHS UNIV OF ALABAMA TB ASSOC
PROJECT DATA — STARTED 1962 — SUPPORT BY CONTRACT,INTERNAL,OTHER — COST $173,000

002 ARIZONA — UNIVERSITY OF ARIZONA — TUCSON ARIZ 002
TITLE — AIR POLLUTION SURVEILLANCE STUDY
INVESTIGATOR — O. MEES — UNIV OF ARIZ — TUCSON ARIZ
SPONSOR — CITY OF TUCSON
PROJECT DATA — STARTED 1959 — SUPPORT BY GRANT — COST $ 8,000

003 ARKANSAS — UNIVERSITY OF ARKANSAS — FAYETTEVILLE ARK 003
TITLE — FALLOUT IN RAIN
INVESTIGATOR — L.M.FRY — UNIV OF ARK — FAYETTEVILLE ARK
SPONSOR — USAEC
PROJECT DATA — STARTED 1957 — SUPPORT BY CONTRACT — COST $ 40,000

004 ARKANSAS — UNIVERSITY OF ARKANSAS — FAYETTEVILLE ARK 004
TITLE — RADIOACTIVE FALLOUT
INVESTIGATOR — P.K.KURODA — UNIV OF ARK — FAYETTEVILLE ARK
SPONSOR — USAEC
PROJECT DATA — STARTED 1958 — SUPPORT BY CONTRACT — COST $ 30,000

005 CALIFORNIA — AEROMETRIC RESEARCH INCORPORATED — GOLETA CALIF 005
TITLE — THE MARINE LAYER- A MESO-METEOROLOGICAL STUDY
INVESTIGATOR — S.R.FRANK — AEROMETRIC RES INC — ADMINISTRATION BLDG — GOLETA CALIF
SPONSOR
PROJECT DATA — STARTED 1959 — SUPPORT BY GRANT — COST $ 39,000

006 CALIFORNIA — AGRICULTURAL EXTENSION SERVICE — BERKELEY CALIF 006
TITLE — COORDINATION OF AIR SANITATION AND AGRICULTURAL SURVEY RESEARCH
INVESTIGATOR — J.J.MCELROY — AGRIC EXT SERVICE — 2200 UNIVERSITY AVE — BERKELEY CALIF
SPONSOR — CALIF STATE DEPT OF HEALTH
PROJECT DATA — STARTED 1957 — SUPPORT BY INTERNAL — COST $ 2,000

007 CALIFORNIA — BECKMAN INSTRUMENTS INCORPORATED — FULLERTON CALIF 007
TITLE — DEVELOPMENT OF ANALYTICAL INSTRUMENTS
INVESTIGATOR — R.L.CHAPMAN — BECKMAN INSTR INC — 2500 HARBOR BOULEVAR — FULLERTON CALIF
SPONSOR — BECKMAN INSTRUMENTS INC
PROJECT DATA — STARTED — SUPPORT BY INTERNAL

008 CALIFORNIA — CALIFORNIA INSTITUTE OF TECHNOLOGY — PASADENA CALIF 008
TITLE — GAS CHROMATOGRAPHIC ANALYSIS OF NITROGEN OXIDE AND NITROGEN DIOXIDE IN NIT
INVESTIGATOR — W.M.CORCORAN — CALIF INST OF TECH — 1201 E CALIF. BLVD — PASADENA CALIF
SPONSOR — CALIFORNIA INSTITUTE OF TECHNOLOGY
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL

009 CALIFORNIA — CALIFORNIA INSTITUTE OF TECHNOLOGY — PASADENA CALIF 009
TITLE — SYNERGISTIC PROPERTIES OF AEROSOLS
INVESTIGATOR — A. GOETZ — CALIF INST OF TECH — 1201 E CALIF. BLVD — PASADENA CALIF
SPONSOR — USPHS
PROJECT DATA — STARTED 1956 — SUPPORT BY GRANT — COST $ 35,000

010 CALIFORNIA — CALIFORNIA INSTITUTE OF TECHNOLOGY — PASADENA CALIF 010
TITLE — BIOCHEMICAL INVESTIGATIONS ON PLANT DAMAGE BY AIR POLLUTANTS
INVESTIGATOR — A.J.HAAGEN-SMIT — CALIF INST OF TECH — 1201 E CALIF. BLVD — PASADENA CALIF
SPONSOR — CALIFORNIA INSTITUTE OF TECHNOLOGY
PROJECT DATA — STARTED 1960 — SUPPORT BY INTERNAL — COST $ 10,000

011	CALIFORNIA	CALIFORNIA INSTITUTE OF TECHNOLOGY			PASADENA	CALIF	011
	TITLE	FORMATION OF NITROGEN OXIDES IN ENVIRONMENT OF OSCILLATING PRESSURE					
	INVESTIGATOR	G.N.RICHTER	CALIF INST OF TECH	1201 E CALIF. BLVD	PASADENA	CALIF	
	SPONSOR	CALIFORNIA INSTITUTE OF TECHNOLOGY					
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL				
012	CALIFORNIA	CALIFORNIA INSTITUTE OF TECHNOLOGY			PASADENA	CALIF	012
	TITLE	INFLUENCE OF AEROSOL CHARACTERISTICS ON VISIBILITY					
	INVESTIGATOR	A.T.ROSSANO	CALIF INST OF TECH	1201 E CALIFORNIA ST	PASADENA	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT		COST	$ 43,000	
013	CALIFORNIA	CALIFORNIA INSTITUTE OF TECHNOLOGY			PASADENA	CALIF	013
	TITLE	FORMATION OF THE OXIDES OF NITROGEN DURING COMBUSTION					
	INVESTIGATOR	B.M.SAGE	CAL INST OF TECH	1201 E CALIF. BLVD	PASADENA	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT		COST	$ 23,000	
014	CALIFORNIA	CALIFORNIA INSTITUTE OF TECHNOLOGY			PASADENA	CALIF	014
	TITLE	PARTIAL OXIDATION PRODUCTS FORMED DURING COMBUSTION					
	INVESTIGATOR	B.M.SAGE	CAL INST OF TECH	1201 E CALIF. BLVD	PASADENA	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT		COST	$ 20,000	
015	CALIFORNIA	CALIFORNIA STATE DEPARTMENT OF PUBLIC HEALTH			BERKELEY	CALIF	015
	TITLE	CARBON MONOXIDE VISUAL THRESHOLD STUDY					
	INVESTIGATOR	J.R.GOLDSMITH	CAL DEPT PUB HEALTH		BERKELEY	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT		COST	$ 15,000	
016	CALIFORNIA	HUNTINGTON MEMORIAL HOSPITAL			PASADENA	CALIF	016
	TITLE	ATMOSPHERIC POLLUTANTS AND LUNG AMINES					
	INVESTIGATOR	C.M.YMIENES	HUNTINGTON MEM HOSP	734 FAIRMOUNT AVENUE	PASADENA	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT		COST	$ 19,000	
017	CALIFORNIA	KAISER STEEL CORPORATION			FONTANA	CALIF	017
	TITLE	SINTER PLANT STACK GAS ANALYSIS					
	INVESTIGATOR	J.M.SMITH	KAISER STEEL CORP	P O BOX 217	FONTANA	CALIF	
	SPONSOR	KAISER STEEL CORPORATION					
	PROJECT DATA	STARTED 1958	SUPPORT BY INTERNAL				
018	CALIFORNIA	LOS ANGELES CITY DEPARTMENT OF WATER AND POWER			LOS ANGELES	CALIF	018
	TITLE	PILOT MODEL OF PLUME OPACITY CONTROL DEVICE					
	INVESTIGATOR	I.L.BATEMAN	LA WATER + POWER DP	BOX 3669 TERMINAL AN	LOS ANGELES	CALIF	
	SPONSOR	CITY OF LOS ANGELES					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL				
019	CALIFORNIA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT			LOS ANGELES	CALIF	019
	TITLE	BIOLOGICAL EFFECTS OF AUTOMOTIVE AIR POLLUTANTS ON ANIMALS					
	INVESTIGATOR	P.J.BRYAN	L A CNTY - APCD	434 S SAN PEDRO ST	LOS ANGELES	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT		COST	$ 90,000	
020	CALIFORNIA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT			LOS ANGELES	CALIF	020
	TITLE	EFFECTS OF NITROGEN OXIDES - HYDROCARBON RATIOS ON PHOTOCHEM SMOG FORMATN					
	INVESTIGATOR	R.L.CHASS	L A CNTY - APCD	434 S SAN PEDRO ST	LOS ANGELES	CALIF	
	SPONSOR	DEPT OF PUBLIC HEALTH - STATE OF CALIF					
	PROJECT DATA	STARTED 1962	SUPPORT BY CONTRACT		COST	$127,000	

021 CALIFORNIA
TITLE LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT
EFFECTS OF SOLVENTS
INVESTIGATOR R.L.CHASS L A CNTY - APCD 434 S SAN PEDRO ST LOS ANGELES CALIF 021
SPONSOR L A CNTY - APCD LOS ANGELES CALIF
PROJECT DATA STARTED 1962 SUPPORT BY INTERNAL COST $125,000

022 CALIFORNIA
TITLE LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT
LEAD PROJECT
INVESTIGATOR R.L.CHASS L A CNTY - APCD 434 S SAN PEDRO ST LOS ANGELES CALIF 022
SPONSOR L A CNTY - APCD, KETTERING LABORATORY LOS ANGELES CALIF
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL,OTHER COST $ 15,000

023 CALIFORNIA
TITLE LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT
COMPARISON OF MEASURED AND CALCULATED ATMOSPHERIC COMPOSITION
INVESTIGATOR R.L.CHASS L A CNTY - APCD 434 S SAN PEDRO ST LOS ANGELES CALIF 023
SPONSOR L A CNTY - APCD LOS ANGELES CALIF
PROJECT DATA STARTED 1962 SUPPORT BY INTERNAL COST $ 50,000

024 CALIFORNIA
TITLE LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT
COMPARISON OF HYDROCARBON INSTRUMENTS
INVESTIGATOR R.L.CHASS L A CNTY - APCD 434 S SAN PEDRO ST LOS ANGELES CALIF 024
SPONSOR L A CNTY - APCD LOS ANGELES CALIF
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL COST $ 12,000

025 CALIFORNIA
TITLE LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT
SULFUR DIOXIDES EFFECTS ON PHOTOACTIVATION OF HYDROCARBON
INVESTIGATOR R.L.CHASS L A CNTY - APCD 434 S SAN PEDRO ST LOS ANGELES CALIF 025
SPONSOR L A CNTY - APCD LOS ANGELES CALIF
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL COST $ 51,000

026 CALIFORNIA
TITLE LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT
LOS ANGELES AUTO EXHAUST TEST STATION PROJECT
INVESTIGATOR R.L.CHASS L A CNTY - APCD 434 S SAN PEDRO ST LOS ANGELES CALIF 026
SPONSOR USPHS, CAL STATE DEPT PUB HEAL, LA CO-APCD, AUT MFG ASSN, LOS ANGELES CALIF
PROJECT DATA STARTED 1960 SUPPORT BY INTERNAL,OTHER COST $ 80,000

027 CALIFORNIA
TITLE LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT
SPECIALIZED AUTOMOTIVE SURVEY
INVESTIGATOR R.L.CHASS L A CNTY - APCD 434 S SAN PEDRO ST LOS ANGELES CALIF 027
SPONSOR CALIFORNIA STATE HEALTH DEPARTMENT LOS ANGELES CALIF
PROJECT DATA STARTED 1962 SUPPORT BY OTHER COST $114,000

028 CALIFORNIA
TITLE LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT
DIESEL EXHAUST STUDY
INVESTIGATOR R.L.CHASS L A CNTY - APCD 434 S SAN PEDRO ST LOS ANGELES CALIF 028
SPONSOR CALIFORNIA STATE HEALTH DEPARTMENT LOS ANGELES CALIF
PROJECT DATA STARTED 1962 SUPPORT BY OTHER COST $ 50,000

029 CALIFORNIA
TITLE LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT
TESTING OF AUTOMOBILE EXHAUST AND CRANKCASE CONTROL DEVICES
INVESTIGATOR R.L.CHASS L A CNTY - APCD 434 S SAN PEDRO ST LOS ANGELES CALIF 029
SPONSOR STATE OF CALIF MOTOR VEHICLE POLLUTION CONTROL BOARD LOS ANGELES CALIF
PROJECT DATA STARTED 1961 SUPPORT BY OTHER COST $230,000

030 CALIFORNIA
TITLE LOS ANGELES COUNTY ARBORETUM AND BOTANIC GARDENS
EFFECT OF AIR POLLUTANTS ON PLANT TISSUES
INVESTIGATOR W.S.STEWART L A COUNTY BOTANIC GARDENS ARCADIA CALIF 030
SPONSOR USPHS ARCADIA CALIF
PROJECT DATA STARTED 1959 SUPPORT BY GRANT COST $ 8,000

031 CALIFORNIA — NORRIS THERMADOR CORPORATION — LOS ANGELES CALIF 031
TITLE — DEVELOPMENT OF AIR POLLUTION CONTROL SYSTEMS FOR MOTOR VEHICLES
INVESTIGATOR — G.E.FISMER — NORRIS THERM CORP — 2017 CAMFIELD AVENUE — LOS ANGELES CALIF
SPONSOR — NORRIS THERMADOR CORPORATION
PROJECT DATA — STARTED 1954 — SUPPORT BY INTERNAL

032 CALIFORNIA — OMARA ASSOCIATES, INCORPORATED — LOS ANGELES CALIF 032
TITLE — ADAPTION OF AIR CLEANING EQUIPMENT TO SPECIFIC AIR POLLUTION PROBLEMS
INVESTIGATOR — R.O.OMARA — OMARA ASSOCTS INC — 1111 WILSHIRE BLVD — LOS ANGELES CALIF
SPONSOR
PROJECT DATA — STARTED — SUPPORT BY CONTRACT

033 CALIFORNIA — PASADENA FOUNDATION FOR MEDICAL RESEARCH — PASADENA CALIF 033
TITLE — COMPARATIVE STUDY OF PARTICULATE AIR POLLUTANTS AND 3 ME DAB
INVESTIGATOR — C.M.POMERAT — PASADENA MED RES FD — 99 NORTH EL MOLINO — PASADENA CALIF
SPONSOR
PROJECT DATA — STARTED 1961 — SUPPORT BY GRANT — COST $ 22,000

034 CALIFORNIA — PASADENA FOUNDATION FOR MEDICAL RESEARCH — PASADENA CALIF 034
TITLE — THE EFFECT OF AUTO EXHAUST ON CELL GROWTH IN VITRO
INVESTIGATOR — C.M.POMERAT — PASADENA MED RES FD — 99 NORTH EL MOLINO — PASADENA CALIF
SPONSOR
PROJECT DATA — STARTED 1961 — SUPPORT BY GRANT — COST $ 22,000

035 CALIFORNIA — RANCHO LOS AMIGOS HOSPITAL — DOWNEY CALIF 035
TITLE — AIR POLLUTION AND CHRONIC RESPIRATORY DISEASE
INVESTIGATOR — S.N.ROKAW — RANCHO LOS AMIGOS H — 7601 E IMPERIAL HWY — DOWNEY CALIF
SPONSOR — USPHS
PROJECT DATA — STARTED 1958 — SUPPORT BY GRANT — COST $ 22,000

036 CALIFORNIA — SCOTT RESEARCH LABORATORIES, INCORPORATED — SAN BERNARDINOCALIF 036
TITLE — THE CHEMISTRY OF AIR POLLUTION IN LABORATORY ANALYSIS
INVESTIGATOR — W.E.SCOTT — SCOTT RES LABS, INC — P O BOX 2416 — SAN BERNARDINOCALIF
SPONSOR
PROJECT DATA — STARTED 1953 — SUPPORT BY CONTRACT — COST $ 60,000

037 CALIFORNIA — SCOTT RESEARCH LABORATORIES, INCORPORATED — SAN BERNARDINOCALIF 037
TITLE — REACTION OF POLLUTANTS IN THE ATMOSPHERE
INVESTIGATOR — E.R.STEPHENS — SCOTT RES LABS, INC — P O BOX 2416 — SAN BERNARDINOCALIF
SPONSOR
PROJECT DATA — STARTED 1959 — SUPPORT BY CONTRACT

038 CALIFORNIA — STANDARD OIL COMPANY OF CALIFORNIA — SAN FRANCISCO CALIF 038
TITLE — COMPOSITION OF EXHAUST GASES
INVESTIGATOR — A.M.BATCHELDER — STANDARD OIL CO-CAL — 225 BUSH ST — SAN FRANCISCO CALIF
SPONSOR — STANDARD OIL COMPANY OF CALIFORNIA
PROJECT DATA — STARTED 1954 — SUPPORT BY INTERNAL — COST $ 20,000

039 CALIFORNIA — STANFORD RESEARCH INSTITUTE — SOUTH PASADENACALIF 039
TITLE — PHYSICAL AND CHEMICAL FATE OF FLUORIDES IN PLANTS
INVESTIGATOR — H.M.BENEDICT — STANFORD RES INST — 820 MISSION ST — SOUTH PASADENACALIF
SPONSOR — STANFORD RES INST- USPHS
PROJECT DATA — STARTED 1960 — SUPPORT BY GRANT,CONTRACT,INTERNAL — COST $ 60,000

040 CALIFORNIA — STANFORD RESEARCH INSTITUTE — MENLO PARK CALIF 040
TITLE — BIOLOGIC SEQUELAE IN RATS EXPOSED TO NITROGEN DIOXIDE
INVESTIGATOR — G.B.MAYDON — STANFORD RES INST — MENLO PARK CALIF
SPONSOR
PROJECT DATA — STARTED 1961 — SUPPORT BY GRANT,CONTRACT

041	CALIFORNIA	STANFORD RESEARCH INSTITUTE			SOUTH PASADENA	CALIF	041
	TITLE	BASIC STUDY ON THE CHEMISTRY OF COMMUNITY AIR POLLUTION					
	INVESTIGATOR	E.A.SCHUCK	STANFORD RES INST	820 MISSION ST	SOUTH PASADENA	CALIF	
	SPONSOR						
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT,CONTRACT		COST $120,000		
042	CALIFORNIA	STANFORD UNIVERSITY			STANFORD	CALIF	042
	TITLE	EFFECTS OF TOXIC AGENTS AND ENVIRONMENTAL FACTORS ON HUMAN BEHAVIOR					
	INVESTIGATOR	R.R.REARD	STANFORD UNIV		STANFORD	CALIF	
	SPONSOR	US ARMY MEDICAL R AND D					
	PROJECT DATA	STARTED 1962	SUPPORT BY CONTRACT		COST $ 63,000		
043	CALIFORNIA	STANFORD UNIVERSITY			STANFORD	CALIF	043
	TITLE	STUDY OF BRONCHIAL EPITHELIUM AND RELATED CITY ENVIRONMENTAL FACTORS					
	INVESTIGATOR	W.H.CARNES	STANFORD UNIV		STANFORD	CALIF	
	SPONSOR						
	PROJECT DATA	STARTED 1958	SUPPORT BY CONTRACT				
044	CALIFORNIA	TRUESDAIL LABORATORIES INCORPORATED			LOS ANGELES	CALIF	044
	TITLE	INVESTIGATIONS - CONTROL METHODS FOR GAS FIRED STEAM-ELECTRIC SEWER PLANTS					
	INVESTIGATOR	C.E.JEFFREYS	TRUESDAIL LABS INC	4101 N FIGUEROA ST	LOS ANGELES	CALIF	
	SPONSOR						
	PROJECT DATA	STARTED 1956	SUPPORT BY CONTRACT				
045	CALIFORNIA	UNITED STATES NAVAL RADIOLOGICAL DEFENSE LABORATORY			SAN FRANCISCO	CALIF	045
	TITLE	FALLOUT PROPERTIES AND FALLOUT FORMATION					
	INVESTIGATOR	E.C.FREILING	US NAV DEP LABS	US NAV RAD DEP LABS	SAN FRANCISCO	CALIF	
	SPONSOR	US NAVY - BUREAU OF SHIPS					
	PROJECT DATA	STARTED	SUPPORT BY CONTRACT		COST $300,000		
046	CALIFORNIA	UNIVERSITY OF CALIFORNIA			BERKELEY	CALIF	046
	TITLE	PHOTOCHEMISTRY OF SUBSTANCES PRESENT IN URBAN AIR					
	INVESTIGATOR	H.S.JOHNSTON	UNIV OF CALIF		BERKELEY	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT		COST $ 4,000		
047	CALIFORNIA	UNIVERSITY OF CALIFORNIA			BERKELEY	CALIF	047
	TITLE	BIOLOGIAL EFFECTS OF GASEOUS IONS					
	INVESTIGATOR	A.P.KRUEGER	UNIV OF CALIF	3573 LIFE SCIENCES B	BERKELEY	CALIF	
	SPONSOR	UNIV OF CALIF- USPHS					
	PROJECT DATA	STARTED 1955	SUPPORT BY GRANT		COST $ 54,000		
048	CALIFORNIA	UNIVERSITY OF CALIFORNIA			BERKELEY	CALIF	048
	TITLE	PARTICULATE AIR POLLUTANTS RESULTING FROM COMBUSTION					
	INVESTIGATOR	B.D.TEBBENS	UNIV OF CALIF	210 EARL WARREN HALL	BERKELEY	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1954	SUPPORT BY GRANT		COST $ 33,000		
049	CALIFORNIA	UNIVERSITY OF CALIFORNIA			LIVERMORE	CALIF	049
	TITLE	GASOLINE ENGINE POWERED AIR SAMPLER					
	INVESTIGATOR	G. BLOCK	UNIV OF CALIF		LIVERMORE	CALIF	
	SPONSOR	UNIVERSITY OF CALIFORNIA					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL				
050	CALIFORNIA	UNIVERSITY OF CALIFORNIA			LOS ANGELES	CALIF	050
	TITLE	THERMAL CHARACTERISTICS OF AIR					
	INVESTIGATOR	J.G.EDINGER	UCLA - DEPT OF MET		LOS ANGELES	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT		COST $ 19,000		

051	CALIFORNIA	UNIVERSITY OF CALIFORNIA			LOS ANGELES	CALIF	051
	TITLE	COMBUSTION PROCESS CONTROL					
	INVESTIGATOR	R.D.KOPA	U C L A	405 HILGARD AVE	LOS ANGELES	CALIF	
	SPONSOR	CALIFORNIA STATE					
	PROJECT DATA	STARTED 1956	SUPPORT BY GRANT		COST $ 35,000		
052	CALIFORNIA	UNIVERSITY OF CALIFORNIA			LOS ANGELES	CALIF	052
	TITLE	EFFECTS OF AUTOMOBILE EXHAUSTS ON PLANTS					
	INVESTIGATOR	A.F.RUSH	UCLA		LOS ANGELES	CALIF	
	SPONSOR	UNIVERSITY OF CALIFORNIA AT LOS ANGELES					
	PROJECT DATA	STARTED	SUPPORT BY INTERNAL				
053	CALIFORNIA	UNIVERSITY OF CALIFORNIA			RICHMOND	CALIF	053
	TITLE	PARTICULATE AIR POLLUTANTS RESULTING FROM COMBUSTION					
	INVESTIGATOR	J.F.THOMAS	UNIV OF CALIF	BLDG 102	RICHMOND	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1954	SUPPORT BY GRANT		COST $ 35,000		
054	CALIFORNIA	UNIVERSITY OF CALIFORNIA			RICHMOND	CALIF	054
	TITLE	DEVELOPMENT OF BIOASSAY TECHNIQUES ON ATMOSPHERIC POLLUTANTS					
	INVESTIGATOR	J.F.THOMAS	UNIV OF CALIF	BLDG 102	RICHMOND	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1959	SUPPORT BY GRANT		COST $ 25,000		
055	CALIFORNIA	UNIVERSITY OF CALIFORNIA			RICHMOND	CALIF	055
	TITLE	BIO-ASSAY TECHNIQUES FOR DETERMINING CARCINOGENIC ACTIVITY					
	INVESTIGATOR	J.F.THOMAS	UNIV OF CALIF	BLDG 102	RICHMOND	CALIF	
	SPONSOR	CANCER RESEARCH COORDINATING COMMITTEE					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT		COST $ 5,000		
056	CALIFORNIA	UNIVERSITY OF CALIFORNIA			RIVERSIDE	CALIF	056
	TITLE	EFFECTS OF FLUORINE (AS FLUORIDE) ON PLANT GROWTH AND YIELDS					
	INVESTIGATOR	A.F.BREWER	UNIV OF CALIF	CITRUS RES CENTER	RIVERSIDE	CALIF	
	SPONSOR	USPHS STATE OF CALIFORNIA					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT,INTERNAL		COST $ 30,000		
057	CALIFORNIA	UNIVERSITY OF CALIFORNIA			RIVERSIDE	CALIF	057
	TITLE	EFFECTS OF PHOTOCHEMICAL AIR POLLUTANTS ON ANIMALS, INSECTS, AND PLANTS					
	INVESTIGATOR	E.F.DARLEY	UNIV OF CALIF	CITRUS RES CENTER	RIVERSIDE	CALIF	
	SPONSOR						
	PROJECT DATA	STARTED 1962	SUPPORT BY CONTRACT		COST $123,000		
058	CALIFORNIA	UNIVERSITY OF CALIFORNIA			RIVERSIDE	CALIF	058
	TITLE	PHOTOCHEMICAL EFFECTS OF OXIDANTS ON PLANTS					
	INVESTIGATOR	W.M.DUGGER JR	UNIV OF CALIF	HORTICULTURE DEPT	RIVERSIDE	CALIF	
	SPONSOR	USPHS - DEPT OF AGRICULTURE					
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT,CONTRACT		COST $ 45,000		
059	CALIFORNIA	UNIVERSITY OF CALIFORNIA			RIVERSIDE	CALIF	059
	TITLE	EFFECTS OF VARIOUS AIR POLLUTANTS ON PLANTS					
	INVESTIGATOR	J.T.MIDDLETON	UNIV OF CALIF	HORTICULTURE DEPT	RIVERSIDE	CALIF	
	SPONSOR	UNIVERSITY OF CALIFORNIA - USPHS - AMERICAN PETROLEUM INST					
	PROJECT DATA	STARTED 1954	SUPPORT BY GRANT,CONTRACT,INTERNAL		COST $ 15,000		
060	CALIFORNIA	UNIVERSITY OF CALIFORNIA			RIVERSIDE	CALIF	060
	TITLE	INFLUENCE OF FUEL COMBUSTION ON PHOTOCHEMICAL AIR POLLUTION AND VEG DAMAGE					
	INVESTIGATOR	J.T.MIDDLETON	UNIV OF CALIF		RIVERSIDE	CALIF	
	SPONSOR	UNIVERSITY OF CALIFORNIA - USPHS - AMERICAN PETROLEUM INST					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT,INTERNAL		COST $ 10,000		

061	CALIFORNIA	UNIVERSITY OF CALIFORNIA			RIVERSIDE	CALIF	061
	TITLE	MECHANISMS OF PHOTOCHEMICAL REACTIONS IN URBAN ATMOSPHERES					
	INVESTIGATOR	J.N.PITTS	UNIV OF CALIF		RIVERSIDE	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1959	SUPPORT BY GRANT		COST $ 80,000		
062	CALIFORNIA	UNIVERSITY OF CALIFORNIA			SAN FRANCISCO	CALIF	062
	TITLE	AIR POLLUTION IN CHRONIC RESPIRATORY DISEASE					
	INVESTIGATOR	S.M.FARBER	UNIV OF CALIF,SF	S F GENERAL HOSPITAL	SAN FRANCISCO	CALIF	
	SPONSOR						
	PROJECT DATA	STARTED 1957	SUPPORT BY CONTRACT				
063	CALIFORNIA	UNIVERSITY OF CALIFORNIA CARDIOVASCULAR RESEARCH INST			SAN FRANCISCO	CALIF	063
	TITLE	EFFECTS OF A VARIETY OF INHALED IRRITANTS IN MAN AND EXPERIMENTAL ANIMALS					
	INVESTIGATOR	J.H.COMROE	CARDVSCLR RES INST	UNIV OF CA.-MED CENT	SAN FRANCISCO	CALIF	
	SPONSOR	CALIFORNIA STATE DEPARTMENT OF HEALTH					
	PROJECT DATA	STARTED 1959	SUPPORT BY CONTRACT		COST $ 10,000		
064	CALIFORNIA	UNIVERSITY OF CALIFORNIA MEDICAL CENTER			SAN FRANCISCO	CALIF	064
	TITLE	RECORDINGS FROM LONG CILIARY NERVE OF EYE					
	INVESTIGATOR	W.K.EWER	UNIV OF CALIF, SF		SAN FRANCISCO	CALIF	
	SPONSOR	PROCTOR FOUNDATION					
	PROJECT DATA	STARTED 1959	SUPPORT BY GRANT		COST $ 10,000		
065	CALIFORNIA	UNIVERSITY OF CALIFORNIA MEDICAL CENTER			SAN FRANCISCO	CALIF	065
	TITLE	ACUTE AND CHRONIC EFFECTS OF NITROGEN DIOXIDE ON LUNGS					
	INVESTIGATOR	F.W.MEYERS	UNIV OF CALIF,SF		SAN FRANCISCO	CALIF	
	SPONSOR	MINES LABORATORIES - CALIFORNIA HEALTH DEPT					
	PROJECT DATA	STARTED 1955	SUPPORT BY GRANT,CONTRACT				
066	CALIFORNIA	UNIVERSITY OF SAN FRANCISCO			SAN FRANCISCO	CALIF	066
	TITLE	TOXICOLOGY AND PHARMACOLOGY OF BORON NITRIDE					
	INVESTIGATOR	J.H.GAST	UNIV OF SAN FRANCSC		SAN FRANCISCO	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT		COST $ 30,000		
067	CALIFORNIA	UNIVERSITY OF SOUTHERN CALIFORNIA SCHOOL OF MEDICINE			LOS ANGELES	CALIF	067
	TITLE	EFFECT OF MICRO-ENVIRONMENT UPON PATIENTS WITH CARDIO-PULMONARY DISEASE					
	INVESTIGATOR	O.J.BALCHUM	UNIV SO CALIF-MED	2025 ZONAL AVENUE	LOS ANGELES	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT		COST $ 70,000		
068	CALIFORNIA	UNIVERSITY OF SOUTHERN CALIFORNIA			LOS ANGELES	CALIF	068
	TITLE	CARCINOGENIC EFFECTS OF SYNTHETIC AIR POLLUTION					
	INVESTIGATOR	P. KOTIN	UNIV OF SO CALIF		LOS ANGELES	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT		COST $ 13,000		
069	CALIFORNIA	UNIVERSITY OF SOUTHERN CALIFORNIA			LOS ANGELES	CALIF	069
	TITLE	STUDY OF EXPERIMENTAL ANIMALS EXPOSED TO AMBIENT AIR POLLUTION					
	INVESTIGATOR	L.A.CHAMBERS	UNIV OF SO CALIF	UNIVERSITY PARK	LOS ANGELES	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT		COST $300,000		
070	CALIFORNIA	UNIVERSITY OF SOUTHERN CALIFORNIA			LOS ANGELES	CALIF	070
	TITLE	ANIMAL AIR POLLUTION					
	INVESTIGATOR	M.I.SWANN,JR	UNIV OF SO CALIF	2025 ZONAL AVENUE	LOS ANGELES	CALIF	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT				

071	CALIFORNIA	UNIVERSITY OF SOUTHERN CALIFORNIA			LOS ANGELES	CALIF 071
	TITLE	MEASUREMENT OF EXPIRATORY RESISTANCE IN GUINEA PIGS IN SMOG				
	INVESTIGATOR	H.E.SWANN,JR	UNIV OF SO CALIF	2025 ZONAL AVENUE	LOS ANGELES	CALIF
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT			
072	CALIFORNIA	UNIVERSITY OF SOUTHERN CALIFORNIA			LOS ANGELES	CALIF 072
	TITLE	PULMONARY PHYSIOLOGY STUDY				
	INVESTIGATOR	H.E.SWANN,JR	UNIV OF SO CALIF	2025 ZONAL AVENUE	LOS ANGELES	CALIF
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT			
073	CALIFORNIA	UNIVERSITY OF SOUTHERN CALIFORNIA SCHOOL OF MEDICINE			LOS ANGELES	CALIF 073
	TITLE	DETERMINATION OF TRACE METAL CONCENTRATIONS IN HUMAN TISSUES - ESP LEAD				
	INVESTIGATOR	E.M.BUTT	UNIV OF SO CALIF	1200 N STATE STREET	LOS ANGELES	CALIF
	SPONSOR	CALIFORNIA STATE DEPARTMENT OF PUBLIC HEALTH				
	PROJECT DATA	STARTED 1960	SUPPORT BY CONTRACT		COST $ 8,000	
074	CALIFORNIA	VETERINARY LABORATORIES INCORPORATED			ONTARIO	CALIF 074
	TITLE	LONG-TERM EFFECTS OF POLLUTION OF THE LOS ANGELES TYPE UPON CHICKENS				
	INVESTIGATOR	W.D.URBAN	VET LABS INC	1010 E MISSION BLVD	ONTARIO	CALIF
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1958	SUPPORT BY CONTRACT		COST $ 6,000	
075	CALIFORNIA	WESTERN PRECIPITATION DIVISION OF JOY MFG COMPANY			LOS ANGELES	CALIF 075
	TITLE	GAS DISTRIBUTION DEVICES				
	INVESTIGATOR	H.D.BELTRAN	JOY MFG CO	1000 WEST NINTH ST	LOS ANGELES	CALIF
	SPONSOR	WESTERN PRECIPITATION DIVISION OF JOY MFG COMPANY				
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL		COST $ 30,000	
076	CALIFORNIA	WESTERN PRECIPITATION DIVISION OF JOY MFG COMPANY			LOS ANGELES	CALIF 076
	TITLE	PRECIPITATOR ELECTRICAL EQUIPMENT				
	INVESTIGATOR	L.O.REED	JOY MFG CO	1000 WEST NINTH ST	LOS ANGELES	CALIF
	SPONSOR	WESTERN PRECIPITATION DIVISION OF JOY MFG COMPANY				
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL		COST $ 30,000	
077	CALIFORNIA	WESTERN PRECIPITATION DIVISION OF JOY MFG COMPANY			LOS ANGELES	CALIF 077
	TITLE	FABRIC FILTER STUDY				
	INVESTIGATOR	L.O.REED	JOY MFG CO	1000 WEST NINTH ST	LOS ANGELES	CALIF
	SPONSOR	WESTERN PRECIPITATION DIVISION OF JOY MFG COMPANY				
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL		COST $ 18,000	
078	CALIFORNIA	WESTERN PRECIPITATION DIVISION OF JOY MFG COMPANY			LOS ANGELES	CALIF 078
	TITLE	RAPPING REQUIREMENTS FOR PRECIPITATORS				
	INVESTIGATOR	W.T.SPROULL	JOY MFG CO	1000 WEST NINTH ST	LOS ANGELES	CALIF
	SPONSOR	WESTERN PRECIPITATION DIVISION OF JOY MFG COMPANY				
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST $ 10,000	
079	COLORADO	COLORADO STATE UNIVERSITY			FORT COLLINS	COL 079
	TITLE	DIFFUSION IN VEGETATED REGIONS				
	INVESTIGATOR	J.E.CERMAK	COL STATE UNIV	AEROMECH LAB	FORT COLLINS	COL
	SPONSOR	AGRICULTURAL RESEARCH SERVICE				
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT		COST $ 16,000	
080	COLORADO	COLORADO STATE UNIVERSITY			FORT COLLINS	COL 080
	TITLE	WIND TUNNEL MODELING OF ATMOSPHERIC DIFFUSION				
	INVESTIGATOR	J.E.CERMAK	COL ST UNIV	AEROMECH LAB	FORT COLLINS	COL
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1959	SUPPORT BY GRANT		COST $ 25,000	

081 COLORADO — NATIONAL CENTER FOR ATMOSPHERIC RESEARCH — BOULDER COL 081
TITLE — GENERAL INVESTIGATION OF ATMOSPHERIC CHEMISTRY — BOULDER COL
INVESTIGATOR — J.P.LODGE JR — NAT CEN FOR ATM RES
SPONSOR — NATIONAL SCIENCE FOUNDATION
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT — COST $150,000

082 COLORADO — UNIVERSITY OF COLORADO — BOULDER COL 082
TITLE — STUDY OF GAS CHROMATOGRAPHY AND AIR POLLUTION — BOULDER COL
INVESTIGATOR — P. URONE — UNIV OF COL
SPONSOR — UNIVERSITY OF COLORADO
PROJECT DATA — STARTED 1962 — SUPPORT BY INTERNAL

083 COLORADO — UNIVERSITY OF COLORADO — BOULDER COL 083
TITLE — STUDY OF AIR POLLUTION ANALYTICAL METHODS USING RADIOCHEMICAL METHODS — BOULDER COL
INVESTIGATOR — P. URONE — UNIV OF COL
SPONSOR — NATIONAL SCIENCE FOUNDATION
PROJECT DATA — STARTED 1961 — SUPPORT BY GRANT — COST $ 10,000

084 COLORADO — UNIVERSITY OF COLORADO — BOULDER COL 084
TITLE — GAS CHROMATOGRAPHY IN ATMOSPHERIC ANALYSES — BOULDER COL
INVESTIGATOR — P. URONE — UNIV OF COL
SPONSOR — USPHS
PROJECT DATA — STARTED 1959 — SUPPORT BY GRANT — COST $ 5,000

085 CONNECTICUT — COMBUSTION ENGINEERING, INCORPORATED — WINDSOR CONN 085
TITLE — ANALYSIS OF SULFUR OXIDES IN BOILER FLUE GASES — WINDSOR CONN
INVESTIGATOR — J.D.SENSENBAUGH — COMBUS ENG, INC — PROSPECT HILL ROAD
SPONSOR — COMBUSTION ENGINEERING, INCORPORATED
PROJECT DATA — STARTED 1958 — SUPPORT BY INTERNAL

086 CONNECTICUT — COMBUSTION ENGINEERING, INCORPORATED — WINDSOR CONN 086
TITLE — RELATION BETWEEN BOILER OPERATING VARIABLES AND STACK EMISSIONS — WINDSOR CONN
INVESTIGATOR — J.D.SENSENBAUGH — COMBUS ENG, INC — PROSPECT HILL ROAD
SPONSOR — COMBUSTION ENGINEERING, INCORPORATED
PROJECT DATA — STARTED 1956 — SUPPORT BY INTERNAL

087 CONNECTICUT — COMBUSTION ENGINEERING, INCORPORATED — WINDSOR CONN 087
TITLE — FORMATION AND CONTROL OF NITROGEN OXIDES IN BOILER FURNACES — WINDSOR CONN
INVESTIGATOR — J.D.SENSENBAUGH — COMBUS ENG, INC — PROSPECT HILL ROAD
SPONSOR — COMBUSTION ENGINEERING, INCORPORATED
PROJECT DATA — STARTED 1958 — SUPPORT BY INTERNAL

088 DIST OF COL — ATOMIC ENERGY COMMISSION — WASHINGTON DC 088
TITLE — METEOROLOGICAL RESEARCH ASSOCIATED WITH RADIOACTIVE GASES — WASHINGTON DC
INVESTIGATOR — W.G.BELTER — US AEC
SPONSOR — USAEC
PROJECT DATA — STARTED 1949 — SUPPORT BY INTERNAL — COST $255,000

089 DIST OF COL — ATOMIC ENERGY COMMISSION — WASHINGTON DC 089
TITLE — STUDIES GAS RECOVERY AND RARE GAS ABSORPTION SYSTEMS — WASHINGTON DC
INVESTIGATOR — W.G.BELTER — US AEC
SPONSOR — USAEC
PROJECT DATA — STARTED 1951 — SUPPORT BY CONTRACT

090 DIST OF COL — ATOMIC ENERGY COMMISSION — WASHINGTON DC 090
TITLE — DECONTAMINATION OF GASEOUS FISSION PRODUCTS — WASHINGTON DC
INVESTIGATOR — W.G.BELTER — US AEC
SPONSOR — USAEC
PROJECT DATA — STARTED 1951 — SUPPORT BY CONTRACT

081	COLORADO	NATIONAL CENTER FOR ATMOSPHERIC RESEARCH		BOULDER	COL	081
	TITLE	GENERAL INVESTIGATION OF ATMOSPHERIC CHEMISTRY		BOULDER	COL	
	INVESTIGATOR	J.P.LODGE JR	NAT CEN FOR ATM RES			
	SPONSOR	NATIONAL SCIENCE FOUNDATION		COST	$130,000	
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT			
082	COLORADO	UNIVERSITY OF COLORADO		BOULDER	COL	082
	TITLE	STUDY OF GAS CHROMATOGRAPHY AND AIR POLLUTION		BOULDER	COL	
	INVESTIGATOR	P. URONE	UNIV OF COL			
	SPONSOR	UNIVERSITY OF COLORADO				
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL			
083	COLORADO	UNIVERSITY OF COLORADO		BOULDER	COL	083
	TITLE	STUDY OF AIR POLLUTION ANALYTICAL METHODS USING RADIOCHEMICAL METHODS		BOULDER	COL	
	INVESTIGATOR	P. URONE	UNIV OF COL			
	SPONSOR	NATIONAL SCIENCE FOUNDATION		COST	$ 10,000	
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT			
084	COLORADO	UNIVERSITY OF COLORADO		BOULDER	COL	084
	TITLE	GAS CHROMATOGRAPHY IN ATMOSPHERIC ANALYSES		BOULDER	COL	
	INVESTIGATOR	P. URONE	UNIV OF COL			
	SPONSOR	USPHS		COST	$ 5,000	
	PROJECT DATA	STARTED 1959	SUPPORT BY GRANT			
085	CONNECTICUT	COMBUSTION ENGINEERING, INCORPORATED		WINDSOR	CONN	085
	TITLE	ANALYSIS OF SULFUR OXIDES IN BOILER FLUE GASES		WINDSOR	CONN	
	INVESTIGATOR	J.D.SENSENBAUGH	COMBUS ENG, INC PROSPECT HILL ROAD			
	SPONSOR	COMBUSTION ENGINEERING, INCORPORATED				
	PROJECT DATA	STARTED 1958	SUPPORT BY INTERNAL			
086	CONNECTICUT	COMBUSTION ENGINEERING, INCORPORATED		WINDSOR	CONN	086
	TITLE	RELATION BETWEEN BOILER OPERATING VARIABLES AND STACK EMISSIONS		WINDSOR	CONN	
	INVESTIGATOR	J.D.SENSENBAUGH	COMBUS ENG, INC PROSPECT HILL ROAD			
	SPONSOR	COMBUSTION ENGINEERING, INCORPORATED				
	PROJECT DATA	STARTED 1956	SUPPORT BY INTERNAL			
087	CONNECTICUT	COMBUSTION ENGINEERING, INCORPORATED		WINDSOR	CONN	087
	TITLE	FORMATION AND CONTROL OF NITROGEN OXIDES IN BOILER FURNACES		WINDSOR	CONN	
	INVESTIGATOR	J.D.SENSENBAUGH	COMBUS ENG, INC PROSPECT HILL ROAD			
	SPONSOR	COMBUSTION ENGINEERING, INCORPORATED				
	PROJECT DATA	STARTED 1958	SUPPORT BY INTERNAL			
088	DIST OF COL	ATOMIC ENERGY COMMISSION		WASHINGTON	DC	088
	TITLE	METEOROLOGICAL RESEARCH ASSOCIATED WITH RADIOACTIVE GASES		WASHINGTON	DC	
	INVESTIGATOR	W.G.BELTER	US AEC			
	SPONSOR	USAEC		COST	$235,000	
	PROJECT DATA	STARTED 1949	SUPPORT BY INTERNAL			
089	DIST OF COL	ATOMIC ENERGY COMMISSION		WASHINGTON	DC	089
	TITLE	STUDIES GAS RECOVERY AND RARE GAS ABSORPTION SYSTEMS		WASHINGTON	DC	
	INVESTIGATOR	W.G.BELTER	US AEC			
	SPONSOR	USAEC				
	PROJECT DATA	STARTED 1951	SUPPORT BY CONTRACT			
090	DIST OF COL	ATOMIC ENERGY COMMISSION		WASHINGTON	DC	090
	TITLE	DECONTAMINATION OF GASEOUS FISSION PRODUCTS		WASHINGTON	DC	
	INVESTIGATOR	W.G.BELTER	US AEC			
	SPONSOR	USAEC				
	PROJECT DATA	STARTED 1951	SUPPORT BY CONTRACT			

091 DIST OF COL ATOMIC ENERGY COMMISSION WASHINGTON DC 091
TITLE PREPARATION OF AEC HANDBOOK ON AIR CLEANING
INVESTIGATOR W.G.BELTER US AEC WASHINGTON DC
SPONSOR USAEC
PROJECT DATA STARTED 1951 SUPPORT BY CONTRACT

092 DIST OF COL ATOMIC ENERGY COMMISSION WASHINGTON DC 092
TITLE DESIGN OF PROTOTYPE SOLID RADIOACTIVE WASTE INCINERATOR
INVESTIGATOR W.G.BELTER US AEC WASHINGTON DC
SPONSOR USAEC
PROJECT DATA STARTED 1951 SUPPORT BY CONTRACT

093 DIST OF COL BENJAMIN S LEVINE WASHINGTON DC 093
TITLE USSR LITERATURE ON AIR POLLUTION AND RELATED DISEASES
INVESTIGATOR B.S.LEVINE 3312 NORTHAMPTON, NW WASHINGTON DC
SPONSOR USPHS
PROJECT DATA STARTED 1957 SUPPORT BY GRANT COST $ 15,000

094 DIST OF COL NATIONAL ACADEMY OF SCIENCES,NATIONAL RESEARCH COUNCIL WASHINGTON DC 094
TITLE LITERARY SURVEY ON AIR POLLUTION-GERMANE TO MATERIALS DETERIORATION
INVESTIGATOR C.J.WESSELL NAT ACAD SCI 2101 CONSTITUTION AV WASHINGTON DC
SPONSOR
PROJECT DATA STARTED 1943 SUPPORT BY CONTRACT

095 DIST OF COL PUBLIC HEALTH SERVICE DIVISION OF AIR POLLUTION WASHINGTON DC 095
TITLE WASHINGTON, D C OXIDANT NETWORK
INVESTIGATOR F.A.BELL USPHS - DAP WASHINGTON DC
SPONSOR USPHS
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL COST $ 3,000

096 DIST OF COL PUBLIC HEALTH SERVICE DIVISION OF AIR POLLUTION WASHINGTON DC 096
TITLE SPARTANBURG, SOUTH CAROLINA SHORT-TERM AIR POLLUTION SAMPLING STUDY
INVESTIGATOR G.B.WELSH USPHS - DAP WASHINGTON DC
SPONSOR USPHS
PROJECT DATA STARTED 1962 SUPPORT BY INTERNAL COST $ 2,000

097 DIST OF COL PUBLIC HEALTH SERVICE DIVISION OF AIR POLLUTION WASHINGTON DC 097
TITLE RICHMOND, VIRGINIA SHORT-TERM AIR POLLUTION STUDY
INVESTIGATOR F.A.BELL USPHS - DAP WASHINGTON DC
SPONSOR USPHS
PROJECT DATA STARTED 1962 SUPPORT BY INTERNAL COST $ 2,000

098 DIST OF COL PUBLIC HEALTH SERVICE DIVISION OF AIR POLLUTION WASHINGTON DC 098
TITLE AIR POLLUTION AND INFANT MORTALITY
INVESTIGATOR [illegible],CROCKER USPHS - DAP WASHINGTON DC
SPONSOR USPHS
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL COST $ 8,000

099 DIST OF COL PUBLIC HEALTH SERVICE DIVISION OF AIR POLLUTION WASHINGTON DC 099
TITLE SEWARD-NEW FLORENCE AIR POLLUTION STUDY
INVESTIGATOR E. LANDAU USPHS - DAP WASHINGTON DC
SPONSOR USPHS
PROJECT DATA STARTED 1959 SUPPORT BY INTERNAL COST $ 30,000

100 DIST OF COL PUBLIC HEALTH SERVICE DIVISION OF AIR POLLUTION WASHINGTON DC 100
TITLE HOSPITAL EMERGENCY VISITS, WEATHER AND ASTHMA
INVESTIGATOR S.C.MARCUS USPHS - DAP WASHINGTON DC
SPONSOR USPHS
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL COST $ 30,000

101	DIST OF COL	PUBLIC HEALTH SERVICE DIVISION OF AIR POLLUTION			WASHINGTON DC	101
	TITLE	HAY FEVER AND ASTHMA IN INDUSTRY				
	INVESTIGATOR	J.C.MORTON	USPHS - DAP		WASHINGTON DC	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST $ 1,000	
102	DIST OF COL	UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR			WASHINGTON DC	102
	TITLE	CONTROL OF NITROGEN OXIDES EMISSION IN GAS STREAMS				
	INVESTIGATOR	D. BIENSTOCK	US BUR OF MINES	4800 FORBES AVE	PITTSBURGH PENN	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1962	SUPPORT BY CONTRACT		COST $ 20,000	
103	DIST OF COL	UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR			WASHINGTON DC	103
	TITLE	DEPLETED URANIUM OXIDE AS A CATALYST IN VEHICLE EXHAUST SYSTEM				
	INVESTIGATOR	D. BIENSTOCK	US BUR OF MINES	4800 FORBES AVE	PITTSBURGH PENN	
	SPONSOR	USAEC				
	PROJECT DATA	STARTED 1960	SUPPORT BY CONTRACT		COST $ 15,000	
104	DIST OF COL	UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR			WASHINGTON DC	104
	TITLE	FORMATION OF NITROGEN OXIDES IN THE COMBUSTION OF PULVERIZED COAL				
	INVESTIGATOR	J.M.FIELD	US BUR OF MINES	4800 FORBES AVE	PITTSBURGH PENN	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1962	SUPPORT BY CONTRACT		COST $ 20,000	
105	DIST OF COL	UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR			WASHINGTON DC	105
	TITLE	SULFUR DIOXIDE REMOVAL FROM FLUE GAS				
	INVESTIGATOR	J.M.FIELD	US BUR OF MINES	4800 FORBES AVE	PITTSBURGH PENN	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1955	SUPPORT BY CONTRACT		COST $ 45,000	
106	DIST OF COL	UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR			WASHINGTON DC	106
	TITLE	DEPLETED URANIUM AS OXIDATIVE CATALYST FOR AUTO EXHAUST GASES				
	INVESTIGATOR	J.M.FIELD	US BUR OF MINES	4800 FORBES AVE	PITTSBURGH PENN	
	SPONSOR	USAEC				
	PROJECT DATA	STARTED 1962	SUPPORT BY CONTRACT		COST $ 40,000	
107	DIST OF COL	UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR			WASHINGTON DC	107
	TITLE	REMOVAL OF AIR CONTAMINANTS BY CATALYTIC OXIDATION				
	INVESTIGATOR	L.J.HOFER	US BUR OF MINES	4800 FORBES AVE	PITTSBURGH PENN	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1957	SUPPORT BY CONTRACT		COST $ 64,000	
108	DIST OF COL	UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR			WASHINGTON DC	108
	TITLE	MASS AND INFRARED SPECTRA FOR HYDROCARBONS IN AUTO EXHAUST GAS				
	INVESTIGATOR	R.W.HURN	US BUR OF MINES		BARTLESVILLE OKLA	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY CONTRACT		COST $ 15,000	
109	DIST OF COL	UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR			WASHINGTON DC	109
	TITLE	COMPOSITION OF DIESEL EXHAUST GAS				
	INVESTIGATOR	R.W.HURN	US BUR OF MINES		BARTLESVILLE OKLA	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT		COST $ 27,000	
110	DIST OF COL	UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR			WASHINGTON DC	110
	TITLE	ENGINE EXHAUST GAS ANALYSIS				
	INVESTIGATOR	R.W.HURN	US BUR OF MINES		BARTLESVILLE OKLA	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1955	SUPPORT BY CONTRACT,INTERNAL		COST $115,000	

111 DIST OF COL — UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR — WASHINGTON DC 111
TITLE — INVESTIGATION OF SULFUR AND NITROGEN OXIDES IN POWER PLANT STACK GASES
INVESTIGATOR — A.A.ORNING — US BUR OF MINES — 4800 FORBES AVE — PITTSBURGH PENN
SPONSOR — USPHS
PROJECT DATA — STARTED 1962 — SUPPORT BY CONTRACT — COST $ 30,000

112 DIST OF COL — UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR — WASHINGTON DC 112
TITLE — CATALYTIC MUFFLER, MOBILE LABORATORY TEST
INVESTIGATOR — R.A.VAN METER — US BUR OF MINES — WASHINGTON DC
SPONSOR — USAEC
PROJECT DATA — STARTED 1960 — SUPPORT BY CONTRACT — COST $ 15,000

113 DIST OF COL — UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR — WASHINGTON DC 113
TITLE — CATALYTIC MUFFLERS DEPLETED URANIUM CATALYSTS
INVESTIGATOR — R.A.VAN METER — US BUR OF MINES — WASHINGTON DC
SPONSOR — USAEC
PROJECT DATA — STARTED 1960 — SUPPORT BY CONTRACT — COST $ 25,000

114 DIST OF COL — UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR — WASHINGTON DC 114
TITLE — NONCATALYTIC AFTERBURNERS FOR AUTOMOBILE EXHAUST
INVESTIGATOR — R.A.VAN METER — US BUR OF MINES — WASHINGTON DC
SPONSOR — USPHS
PROJECT DATA — STARTED 1960 — SUPPORT BY CONTRACT — COST $ 30,000

115 DIST OF COL — UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR — WASHINGTON DC 115
TITLE — ENGINE EXHAUST GAS ANALYSIS-- GASOLINE
INVESTIGATOR — R.A.VAN METER — US BUR OF MINES — WASHINGTON DC
SPONSOR — USPHS
PROJECT DATA — STARTED 1955 — SUPPORT BY CONTRACT — COST $130,000

116 DIST OF COL — UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR — WASHINGTON DC 116
TITLE — SURVEY OF BURNING COAL REFUSE DUMPS
INVESTIGATOR — R.A.VAN METER — US BUR OF MINES — WASHINGTON DC
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT — COST $ 16,000

117 DIST OF COL — UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR — WASHINGTON DC 117
TITLE — FUEL OIL DESULFURIZATION PROCESSES
INVESTIGATOR — R.A.VAN METER — US BUR OF MINES — WASHINGTON DC
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT — COST $ 5,000

118 DIST OF COL — UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR — WASHINGTON DC 118
TITLE — ENGINE EXHAUST GAS ANALYSIS--DIESEL
INVESTIGATOR — R.A.VAN METER — US BUR OF MINES — WASHINGTON DC
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT — COST $ 27,000

119 DIST OF COL — UNITED STATES BUREAU OF MINES,DEPT OF THE INTERIOR — WASHINGTON DC 119
TITLE — INVESTIGATION OXIDES OF NITROGEN AND SULFUR IN POWER-STATION BOILERS
INVESTIGATOR — R.A.VAN METER — US BUR OF MINES — WASHINGTON DC
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT — COST $ 20,000

120 DIST OF COL — UNITED STATES NAVAL RESEARCH LABORATORY — WASHINGTON DC 120
TITLE — 80TH MERIDIAN AIR SAMPLING PROGRAM
INVESTIGATOR — L.B.LOCKHART — US NAV RES LAB — WASHINGTON DC
SPONSOR — US NAVY USAEC
PROJECT DATA — STARTED 1956 — SUPPORT BY CONTRACT — COST $ 50,000

121	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	121
	TITLE	DIFFUSION CLIMATOLOGY OF THE SOUTHERN CALIFORNIA AREA				
	INVESTIGATOR	G.A.DEMARRAIS	USWB - METEOROL RES	WASHINGTON	DC	
	SPONSOR	USAEC				
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT	COST	$ 25,000	
122	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	122
	TITLE	STUDY OF LOW LEVEL ATMOSPHERIC DISPERSION AND MICROMETEOROLOGY				
	INVESTIGATOR	F.A.GIFFORD	US WEATHER BUR RES STA - BOX E	OAK RIDGE	TENN	
	SPONSOR	US WEATHER BUREAU				
	PROJECT DATA	STARTED 1949	SUPPORT BY INTERNAL	COST	$ 55,000	
123	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	123
	TITLE	THEORETICAL STUDIES OF ATMOSPHERIC TURBULENCE AND DIFFUSION				
	INVESTIGATOR	F.A.GIFFORD	USWB - METEOROL RES	WASHINGTON	DC	
	SPONSOR	USAEC				
	PROJECT DATA	STARTED 1954	SUPPORT BY GRANT	COST	$ 20,000	
124	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	124
	TITLE	USE OF RADON DAUGHTER PRODUCTS AS INDICATORS OF VERTICAL DIFFUSION				
	INVESTIGATOR	C.R.MOSLER	USWB - METEOROL RES	WASHINGTON	DC	
	SPONSOR	USAEC, USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY CONTRACT	COST	$ 18,000	
125	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	125
	TITLE	USE OF RADIOACTIVE TRACERS TO FIND DISPERSION AND DEPOSITION RATES IN ATM				
	INVESTIGATOR	W.F.ISLITZER	USWB - METEOROL RES	WASHINGTON	DC	
	SPONSOR	USAEC				
	PROJECT DATA	STARTED 1960	SUPPORT BY CONTRACT	COST	$ 50,000	
126	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	126
	TITLE	USE OF CONSTANT LEVEL BALOONS FOR ATMOSPHERIC MOTION STUDIES				
	INVESTIGATOR	D.H.PACK	USWB - METEOROL RES	WASHINGTON	DC	
	SPONSOR	USAEC, USPHS				
	PROJECT DATA	STARTED 1958	SUPPORT BY CONTRACT	COST	$ 40,000	
127	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	127
	TITLE	DUST PARTICLE COUNTS, IN MICRONS PER MICROSCOPE FIELD				
	INVESTIGATOR	J.C.PALES	US WEATHER BUREAU P O BOX 3650	HONOLULU	HAW	
	SPONSOR	US WEATHER BUREAU				
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL			
128	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	128
	TITLE	OZONE CONCENTRATIONS IN THE AMBIENT AIR				
	INVESTIGATOR	J.C.PALES	US WEATHER BUREAU P O BOX 3650	HONOLULU	HAW	
	SPONSOR	US WEATHER BUREAU ARMY ELECTRONICS PROVING GROUND				
	PROJECT DATA	STARTED 1957	SUPPORT BY INTERNAL,OTHER			
129	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	129
	TITLE	CARBON DIOXIDE OF THE AMBIENT AIR				
	INVESTIGATOR	J.C.PALES	US WEATHER BUREAU P O BOX 3650	HONOLULU	HAW	
	SPONSOR	US WEATHER BUREAU				
	PROJECT DATA	STARTED 1957	SUPPORT BY INTERNAL			
130	DIST OF COL	UNITED STATES WEATHER BUREAU		WASHINGTON	DC	130
	TITLE	TOTAL RADIOACTIVITY, IN DPM IN 24-HOUR HIGH-VOLUME SAMPLES				
	INVESTIGATOR	J.C.PALES	US WEATHER BUREAU P O BOX 3650	HONOLULU	HAW	
	SPONSOR	US WEATHER BUREAU				
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL			

131 FLORIDA — BAY CITY ENGINEERING INCORPORATED — ST PETERSBURG FLA — 131
TITLE — EXPERIMENTS WITH APPARATUS FOR PRECIPITATION FROM INCINERATORS
INVESTIGATOR — L.E.GUNN — BAY CITY ENGR INC — 2600 24 STREET NORTH — ST PETERSBURG FLA
SPONSOR — BAY CITY ENG INC
PROJECT DATA — STARTED 1962 — SUPPORT BY INTERNAL

132 FLORIDA — FLORIDA CITRUS EXPERIMENT STATION — LAKE ALFRED FLA — 132
TITLE — SURVEY OF LEAF FLUORINE CONTENT IN CITRUS GROVES NEAR SUPERPHOSPHATE
INVESTIGATOR — C.D.LEONARD — UNIV OF FLA-EXP STA — LAKE ALFRED FLA
SPONSOR — FLORIDA CITRUS COMMISSION
PROJECT DATA — STARTED 1961 — SUPPORT BY GRANT — COST $ 6,000

133 FLORIDA — UNIVERSITY OF FLORIDA — GAINESVILLE FLA — 133
TITLE — ANALYSIS OF MICROMETEOROLOGICAL DATA RELATED TO DIFFUSION AND DISPERSION
INVESTIGATOR — A.L.DANIS — UNIV OF FLA — COLLEGE OF ENGNG — GAINESVILLE FLA
SPONSOR
PROJECT DATA — STARTED 1959 — SUPPORT BY CONTRACT — COST $ 2,000

134 FLORIDA — UNIVERSITY OF FLORIDA — GAINESVILLE FLA — 134
TITLE — STUDY OF AIR POLLUTION PROBLEMS OF THE PULP AND PAPER INDUSTRY
INVESTIGATOR — E.R.HENDRICKSON — UNIV OF FLA — GAINESVILLE FLA
SPONSOR
PROJECT DATA — STARTED 1956 — SUPPORT BY CONTRACT — COST $ 15,000

135 FLORIDA — UNIVERSITY OF FLORIDA — GAINESVILLE FLA — 135
TITLE — BASIC STUDIES ON LEAD PEROXIDE MONITORING OF SULFUR DIOXIDE
INVESTIGATOR — E.R.HENDRICKSON — UNIV OF FLA — GAINESVILLE FLA
SPONSOR
PROJECT DATA — STARTED 1960 — SUPPORT BY CONTRACT — COST $ 2,000

136 FLORIDA — UNIVERSITY OF FLORIDA — GAINESVILLE FLA — 136
TITLE — IDENTIFICATION OF NON-SULFUR COMPOUNDS IN STACK GASES FROM PULP MILLS
INVESTIGATOR — E.R.HENDRICKSON — UNIV OF FLA — GAINESVILLE FLA
SPONSOR
PROJECT DATA — STARTED 1960 — SUPPORT BY CONTRACT — COST $ 5,000

137 FLORIDA — UNIVERSITY OF FLORIDA — GAINESVILLE FLA — 137
TITLE — STUDIES IN THE OXIDATION OF KRAFT BLACK LIQUOR FOR ODOR CONTROL
INVESTIGATOR — E.R.HENDRICKSON — UNIV OF FLA — GAINESVILLE FLA
SPONSOR
PROJECT DATA — STARTED 1959 — SUPPORT BY CONTRACT — COST $ 5,000

138 FLORIDA — UNIVERSITY OF FLORIDA — GAINESVILLE FLA — 138
TITLE — DEVELOPMENT OF STACK SAMPLING PROCEDURES FOR PULP AND PAPER INDUSTRY
INVESTIGATOR — E.R.HENDRICKSON — UNIV OF FLA — GAINESVILLE FLA
SPONSOR — PULP AND PAPER INDUSTRY
PROJECT DATA — STARTED 1957 — SUPPORT BY CONTRACT — COST $ 5,000

139 FLORIDA — UNIVERSITY OF FLORIDA — GAINESVILLE FLA — 139
TITLE — ANALYSES AND TREATMENT OF SULFATE PULPING EMISSIONS(E.R.HENDRICKSON)
INVESTIGATOR — E.R.HENDRICKSON — UNIV OF FLA — GAINESVILLE FLA
SPONSOR — NATIONAL COUNCIL FOR STREAM IMPROVEMENT
PROJECT DATA — STARTED 1957 — SUPPORT BY GRANT — COST $ 15,000

140 FLORIDA — UNIVERSITY OF FLORIDA — GAINESVILLE FLA — 140
TITLE — BEHAVIOR OF AEROSOLS IN A THERMAL GRADIENT
INVESTIGATOR — R.S.SHOLTES — UNIV OF FLA — GAINESVILLE FLA
SPONSOR
PROJECT DATA — STARTED 1960 — SUPPORT BY CONTRACT — COST $ 5,000

141	FLORIDA	UNIVERSITY OF FLORIDA - GULF COAST EXP STA			BRADENTON	FLA 141
	TITLE	EFFECT OF FLUORIDES ON THE METABOLISM OF HIGHER PLANTS			BRADENTON	FLA
	INVESTIGATOR	S.S.WOLTZ	UNIV OF FLA		COST	$ 21,000
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT			
142	FLORIDA	UNIVERSITY OF MIAMI			MIAMI	FLA 142
	TITLE	ROLE OF SULFHYDRYL ALKYLATING AGENTS AS LACRIMINATORS IN SMOG			MIAMI	FLA
	INVESTIGATOR	K.F.LAMPE	UNIV OF MIAMI	1600 NW 10 AVENUE	COST	$ 14,000
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT			
143	FLORIDA	UNIVERSITY OF MIAMI SCHOOL OF MEDICINE			CORAL GABLES	FLA 143
	TITLE	SUBACUTE AND CHRONIC EFFECTS OF THE NITRO-OLEFINS			CORAL GABLES	FLA
	INVESTIGATOR	W.B.BEICHMANN	UNIV OF MIAMI	DEPT OF PHARMACOLOGY	COST	$ 47,000
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1957	SUPPORT BY CONTRACT			
144	GEORGIA	GEORGIA INSTITUTE OF TECHNOLOGY			ATLANTA	GA 144
	TITLE	ANALYSIS OF OXIDES OF SULFUR AND NITROGEN BY GAS CHROMATOGRAPHY			ATLANTA	GA
	INVESTIGATOR	W.N.GRUNE	GA INST TECH		COST	$ 8,000
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1959	SUPPORT BY GRANT			
145	GEORGIA	GEORGIA INSTITUTE OF TECHNOLOGY			ATLANTA	GA 145
	TITLE	PARTICLE CLASSIFIER EMPLOYING ADHESION PRINCIPLE			ATLANTA	GA
	INVESTIGATOR	C. ORR JR	GA INST TECH		COST	$ 11,000
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT			
146	GEORGIA	GEORGIA INSTITUTE OF TECHNOLOGY			ATLANTA	GA 146
	TITLE	A CENTRIFUGAL FORCE BARRIER FOR AIR CLEANING			ATLANTA	GA
	INVESTIGATOR	C. ORR JR	GA INST TECH		COST	$ 11,000
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT			
147	GEORGIA	GEORGIA INSTITUTE OF TECHNOLOGY			ATLANTA	GA 147
	TITLE	SURFACE ENERGIES OF SMOG AND FOG NUCLEI			ATLANTA	GA
	INVESTIGATOR	C. ORR JR	GA INST TECH		COST	$ 13,000
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1957	SUPPORT BY GRANT			
148	GEORGIA	PUBLIC HEALTH SERVICE COMMUNICABLE DISEASE CENTER			SAVANNAH	GA 148
	TITLE	MICROBIOLOGICAL CONTAMINATION OF AIR			SAVANNAH	GA
	INVESTIGATOR	L.B.HALL	PHS-TECH DEV LABS	P O BOX 769	COST	$175,000
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1952	SUPPORT BY INTERNAL			
149	IDAHO	UNIVERSITY OF IDAHO			MOSCOW	IDAHO 149
	TITLE	DETERMINATION OF FLUORINE LEVELS IN VEGETATION, WATER, AND SOILS			MOSCOW	IDAHO
	INVESTIGATOR	A.C.WIESE	UNIV OF IDAHO		COST	$ 6,000
	SPONSOR	LOCAL GOVERNMENT AND PRIVATE INDUSTRY				
	PROJECT DATA	STARTED 1955	SUPPORT BY GRANT			
150	ILLINOIS	ARGONNE NATIONAL LABORATORY			ARGONNE	ILL 150
	TITLE	REMOVAL OF RADIOACTIVE IODINE FROM HANDLING OF IRRADIATED FUEL ELEMENTS			ARGONNE	ILL
	INVESTIGATOR	C.L.CHEEVER	ARGONNE NATL LAB	D-808 ARGONNE NAT LA		
	SPONSOR	ARGONNE NATIONAL LABORATORY				
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL			

151 ILLINOIS — ARGONNE NATIONAL LABORATORY — ARGONNE ILL 151
TITLE — MEASUREMENTS OF TOXIC AND RADIOACTIVE EMISSIONS
INVESTIGATOR — J.F.EGE — ARGONNE NATL LAB — 9700 SOUTH CASS AVE — ARGONNE ILL
SPONSOR — ARGONNE NATIONAL LABORATORY
PROJECT DATA — STARTED 1956 — SUPPORT BY INTERNAL — COST $ 7,000

152 ILLINOIS — ARGONNE NATIONAL LABORATORY — ARGONNE ILL 152
TITLE — MEASUREMENTS OF RADIATION LEVELS
INVESTIGATOR — J.F.EGE — ARGONNE NATL LAB — 9700 SOUTH CASS AVE — ARGONNE ILL
SPONSOR — ARGONNE NATIONAL LABORATORY
PROJECT DATA — STARTED 1949 — SUPPORT BY INTERNAL — COST $ 20,000

153 ILLINOIS — ARGONNE NATIONAL LABORATORY — ARGONNE ILL 153
TITLE — INFRARED STUDIES OF ATMOSPHERIC THERMAL AND MOMENTUM EDDIES
INVESTIGATOR — H. MOSES — ARGONNE NATL LAB — 9700 SOUTH CASS AVE — ARGONNE ILL
SPONSOR — USAEC
PROJECT DATA — STARTED 1959 — SUPPORT BY CONTRACT

154 ILLINOIS — ARGONNE NATIONAL LABORATORY — ARGONNE ILL 154
TITLE — ATMOSPHERIC DIFFUSION STUDIES
INVESTIGATOR — H. MOSES — ARGONNE NATL LAB — 9700 SOUTH CASS AVE — ARGONNE ILL
SPONSOR — USAEC
PROJECT DATA — STARTED 1953 — SUPPORT BY GRANT

155 ILLINOIS — ARGONNE NATIONAL LABORATORY — ARGONNE ILL 155
TITLE — CLIMATOLOGICAL STUDIES PERTAINING TO AIR POLLUTION
INVESTIGATOR — H. MOSES — ARGONNE NATL LAB — 9700 SOUTH CASS AVE — ARGONNE ILL
SPONSOR — USAEC
PROJECT DATA — STARTED 1949 — SUPPORT BY CONTRACT

156 ILLINOIS — ARGONNE NATIONAL LABORATORY — ARGONNE ILL 156
TITLE — THE USE OF NATURAL RADON AS AN ATMOSPHERIC TRACER
INVESTIGATOR — H. MOSES — ARGONNE NATL LAB — 9700 SOUTH CASS AVE — ARGONNE ILL
SPONSOR — USAEC
PROJECT DATA — STARTED 1958 — SUPPORT BY CONTRACT

157 ILLINOIS — ARGONNE NATIONAL LABORATORY — ARGONNE ILL 157
TITLE — MONITORING AIRBORNE RADIOACTIVITY NEAR A NUCLEAR REACTOR
INVESTIGATOR — D.P.ONEIL — ARGONNE NATL LAB — 9700 SOUTH CASS AVE — ARGONNE ILL
SPONSOR — USAEC
PROJECT DATA — STARTED 1947 — SUPPORT BY INTERNAL

158 ILLINOIS — ARMOUR RESEARCH FOUNDATION — CHICAGO ILL 158
TITLE — EFFECTS OF ATMOSPHERIC POLLUTANTS ON SUSCEPTIBILITY TO RESPIRATORY INFEC
INVESTIGATOR — R. EHRLICH — ARMOUR RES FOUND — 10 WEST 35TH STREET — CHICAGO ILL
SPONSOR — USPHS
PROJECT DATA — STARTED 1959 — SUPPORT BY CONTRACT — COST $ 45,000

159 ILLINOIS — ARMOUR RESEARCH FOUNDATION — CHICAGO ILL 159
TITLE — AIR POLLUTION SURVEY OF A CHICAGO MANUFACTURING AREA
INVESTIGATOR — M.A.FISHER — ARMOUR RES FOUND — 10 WEST 35TH STREET — CHICAGO ILL
SPONSOR
PROJECT DATA — STARTED 1962 — SUPPORT BY CONTRACT

160 ILLINOIS — ARMOUR RESEARCH FOUNDATION — CHICAGO ILL 160
TITLE — PARTICULATE AIR POLLUTION IN THE CHICAGO AREA
INVESTIGATOR — M.A.FISHER — ARMOUR RES FOUND — 10 WEST 35TH STREET — CHICAGO ILL
SPONSOR
PROJECT DATA — STARTED 1962 — SUPPORT BY CONTRACT

161 ILLINOIS — ARMOUR RESEARCH FOUNDATION — CHICAGO ILL 161
TITLE — ELECTROSTATIC CLASSIFICATION OF SUBMICRON PARTICLES
INVESTIGATOR — G. LANGER — ARMOUR RES FOUND — 10 WEST 35TH ST — CHICAGO ILL
SPONSOR — USAEC
PROJECT DATA — STARTED 1960 — SUPPORT BY GRANT,CONTRACT — COST $ 60,000

162 ILLINOIS — ARMOUR RESEARCH FOUNDATION — CHICAGO ILL 162
TITLE — EFFECTS OF AIR CONTAMINANTS ON MECHANICAL AND ELECTRICAL DEVICE OPERATION
INVESTIGATOR — A. LIEBERMAN — ARMOUR RES FOUND — 10 WEST 35TH STREET — CHICAGO ILL
SPONSOR
PROJECT DATA — STARTED 1962 — SUPPORT BY CONTRACT

163 ILLINOIS — ARMOUR RESEARCH FOUNDATION — CHICAGO ILL 163
TITLE — STUDY OF AIR POLLUTION LEVELS AND CONTROLS FOR MCCOOK ILLINOIS
INVESTIGATOR — S. RADNER — ARMOUR RES FOUND — 10 WEST 35TH STREET — CHICAGO ILL
SPONSOR
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT

164 ILLINOIS — CITY OF CHICAGO DIVISION OF AIR POLLUTION CONTROL — CHICAGO ILL 164
TITLE — COLLECTION ANALYSES AND TRANSPORT - PARTICULATE MATTER IN CHI AREA ATMSPHR
INVESTIGATOR — J.V.FITZPATRICK — DAP - CHICAGO — 320 NORTH CLARK ST — CHICAGO ILL
SPONSOR — ARMOUR RESEARCH FOUNDATION
PROJECT DATA — STARTED 1962 — SUPPORT BY CONTRACT — COST $ 45,000

165 ILLINOIS — JOSEPH GODER INCINERATORS — CHICAGO ILL 165
TITLE — EFFECT OF DESIGN CRITERIA ON INDUSTRIAL INCINERATORS
INVESTIGATOR — R. GODER — JOS GODER INCIN — 4241 N MONORE ST — CHICAGO ILL
SPONSOR — JOSEPH GODER INCINERATORS
PROJECT DATA — STARTED 1962 — SUPPORT BY INTERNAL — COST $ 3,000

166 ILLINOIS — MCCRONE RESEARCH INSTITUTE, INCORPORATED — CHICAGO ILL 166
TITLE — MICROSCOPIC IDENTIFICATION OF ATMOSPHERIC PARTICULATES
INVESTIGATOR — W.C.MCCRONE — MCCRONE RES INST — 451 EAST 31ST ST — CHICAGO ILL
SPONSOR — USPHS
PROJECT DATA — STARTED 1959 — SUPPORT BY GRANT — COST $ 20,000

167 ILLINOIS — MCCRONE RESEARCH INSTITUTE, INCORPORATED — CHICAGO ILL 167
TITLE — CHARACTERIZATION AND IDENTIFICATION OF AIRBORNE PARTICULATES BY MICROSCOPY
INVESTIGATOR — M.A.SALZENSTEIN — MCCRONE RES INST — 451 EAST 31ST STREET — CHICAGO ILL
SPONSOR — USPHS
PROJECT DATA — STARTED 1958 — SUPPORT BY GRANT — COST $ 15,000

168 ILLINOIS — UNIVERSAL OIL PRODUCTS COMPANY — DES PLAINS ILL 168
TITLE — DEVELOPMENT OF IMPROVED AUTOMOTIVE EXHAUST SYSTEM
INVESTIGATOR — D.M.BELDEN — UNIVERSAL OIL PROD — 30 ALGONQUIN ROAD — DES PLAINS ILL
SPONSOR — UNIVERSAL OIL PRODUCTS COMPANY
PROJECT DATA — STARTED — SUPPORT BY INTERNAL

169 ILLINOIS — UNIVERSAL OIL PRODUCTS COMPANY — DES PLAINS ILL 169
TITLE — IMPROVEMENT IN REMOVAL OF NOXIOUS MATERIALS FROM INDUSTRIAL SMOKE
INVESTIGATOR — D.M.BELDEN — UNIVERSAL OIL PROD — 30 ALGONQUIN ROAD — DES PLAINS ILL
SPONSOR — UNIVERSAL OIL PRODUCTS COMPANY
PROJECT DATA — STARTED — SUPPORT BY INTERNAL

170 ILLINOIS — UNIVERSAL OIL PRODUCTS COMPANY — DES PLAINS ILL 170
TITLE — DETERMINATION AND IMPROVEMENT CRITERIA FOR CONTAMINANT LEVELS
INVESTIGATOR — D.M.BELDEN — UNIVERSAL OIL PROD — 30 ALGONQUIN ROAD — DES PLAINS ILL
SPONSOR — UNIVERSAL OIL PRODUCTS COMPANY
PROJECT DATA — STARTED — SUPPORT BY INTERNAL

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171 ILLINOIS — UNIVERSITY OF CHICAGO — CHICAGO ILL 171
TITLE — TRITIUM CONCENTRATION DETERMINATION IN PRECIPITATION OF CHICAGO — CHICAGO ILL
INVESTIGATOR — L.G.MUEBNER — UNIV OF CHICAGO
SPONSOR — NATIONAL SCIENCE FOUNDATION
PROJECT DATA — STARTED 1950 — SUPPORT BY INTERNAL

172 ILLINOIS — UNIVERSITY OF ILLINOIS — URBANA ILL 172
TITLE — ANALYTICAL METHODS FOR NITROGEN OXIDE — URBANA ILL
INVESTIGATOR — A.M.MARTLEY — UNIV OF ILL
SPONSOR — USPHS
PROJECT DATA — STARTED 1958 — SUPPORT BY GRANT — COST $ 8,000

173 ILLINOIS — UNIVERSITY OF ILLINOIS — URBANA ILL 173
TITLE — THE TRANSFER OF NATURAL RADON INTO THE ATMOSPHERE — URBANA ILL
INVESTIGATOR — J.E.PEARSON — UNIV OF ILL
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY GRANT — COST $ 32,000

174 ILLINOIS — UNIVERSITY OF ILLINOIS — URBANA ILL 174
TITLE — STUDIES ON COAGULATION EMPLOYING AMMONIUM CHLORIDE AND OTHER AEROSOLS — URBANA ILL
INVESTIGATOR — U. HAYAKAWA — UNIV OF ILL
SPONSOR — USPHS
PROJECT DATA — STARTED 1962 — SUPPORT BY GRANT — COST $ 17,000

175 KANSAS — KANSAS STATE UNIVERSITY — MANHATTAN KAN 175
TITLE — HIGH SENSITIVITY VAPOR DETECTORS — MANHATTAN KAN
INVESTIGATOR — W.W.BRANDT — KANS STATE UNIV
SPONSOR — USPHS
PROJECT DATA — STARTED 1958 — SUPPORT BY GRANT — COST $ 4,000

176 KANSAS — KANSAS STATE UNIVERSITY - DEPARTMENT OF BOTANY — MANHATTAN KAN 176
TITLE — DIURNAL INVESTIGATIONS OF AIRBORNE FUNGI — MANHATTAN KAN
INVESTIGATOR — S.M.PADY — KANS STATE UNIV
SPONSOR — USPHS
PROJECT DATA — STARTED 1956 — SUPPORT BY GRANT — COST $ 12,000

177 LOUISIANA — LOUISIANA STATE UNIVERSITY — BATON ROUGE LA 177
TITLE — TECHNIQUES FOR REDUCING GASEOUS PULPING EMISSIONS — BATON ROUGE LA
INVESTIGATOR — LA ST UNIV
SPONSOR — NATIONAL COUNCIL FOR STREAM IMPROVEMENT
PROJECT DATA — STARTED 1957 — SUPPORT BY GRANT — COST $ 15,000

178 LOUISIANA — LOUISIANA STATE UNIVERSITY — BATON ROUGE LA 178
TITLE — SEPARATION AND ESTIMATION OF AIR BORNE PARTICULATES — BATON ROUGE LA
INVESTIGATOR — P.W.WEST — LA ST UNIV
SPONSOR — USPHS
PROJECT DATA — STARTED 1962 — SUPPORT BY GRANT

179 LOUISIANA — LOUISIANA STATE UNIVERSITY — BATON ROUGE LA 179
TITLE — TRACE ANALYSIS METHODS FOR AIR POLLUTION STUDIES — BATON ROUGE LA
INVESTIGATOR — P.W.WEST — LA ST UNIV
SPONSOR — USPHS
PROJECT DATA — STARTED 1962 — SUPPORT BY GRANT

180 LOUISIANA — TULANE UNIVERSITY - MEDICAL SCHOOL — NEW ORLEANS LA 180
TITLE — RELATIONSHIP OF AIR POLL TO ACUTE OUTBREAKS OF ASTHMA IN NEW ORLEANS — NEW ORLEANS LA
INVESTIGATOR — R. LEWIS — TULANE UNIV-MED SCH 1430 TULANE AVENUE
SPONSOR — USPHS
PROJECT DATA — STARTED 1959 — SUPPORT BY CONTRACT — COST $100,000

181 LOUISIANA — TULANE UNIVERSITY - MEDICAL SCHOOL — NEW ORLEANS LA 181
TITLE — AIR POLLUTION IN RELATIONSHIP TO BRONCHIAL ASTHMA
INVESTIGATOR — M. ZINKIND — TULANE UNIV-MED SCH — 1430 TULANE AVENUE — NEW ORLEANS LA
SPONSOR — USPHS
PROJECT DATA — STARTED 1962 — SUPPORT BY CONTRACT — COST $ 19,000

182 MARYLAND — AGRICULTURAL RESEARCH SERVICE — BELTSVILLE MD 182
TITLE — EFFECT OF AIR POLLUTANTS ON TOBACCO PRODUCTION
INVESTIGATOR — M.E.HEGGESTAD — AERIC RES SERVICE — PLANT INDUSTRY STA — BELTSVILLE MD
SPONSOR — UNITED STATES DEPARTMENT OF AGRICULTURE CROPS RES DIVISION
PROJECT DATA — STARTED 1959 — SUPPORT BY OTHER — COST $ 11,000

183 MARYLAND — ARMY CHEMICAL CORPS BIOL. WARFARE LABS. FORT DETRICK — FREDERICK MD 183
TITLE — INTERACTION OF CHEMICAL AIR POLLUTANTS WITH MICROBIAL AEROSOLS
INVESTIGATOR — L.S.IODINE — CHEM CORPS BIO LABS — FORT DETRICK — FREDERICK MD
SPONSOR — CHEMICAL CORPS BIOLOGICAL LABORATORIES
PROJECT DATA — STARTED 1958 — SUPPORT BY INTERNAL

184 MARYLAND — ARMY CHEMICAL CORPS BIOL. WARFARE LABS. FORT DETRICK — FREDERICK MD 184
TITLE — AIR FILTRATION OF MICROBIAL PARTICLES
INVESTIGATOR — M.M.DECKER — US ARMY BIO LABS — FORT DETRICK — FREDERICK MD
SPONSOR — US ARMY
PROJECT DATA — STARTED 1960 — SUPPORT BY INTERNAL

185 MARYLAND — JOHNS HOPKINS UNIVERSITY — BALTIMORE MD 185
TITLE — FILTRATION OF AEROSOLS COMPOSED OF SOLID PARTICLES
INVESTIGATOR — S.K.FRIEDLANDER — JOHNS HOPKINS UNIV — BALTIMORE MD
SPONSOR — USPHS
PROJECT DATA — STARTED — SUPPORT BY GRANT

186 MARYLAND — JOHNS HOPKINS UNIVERSITY — BALTIMORE MD 186
TITLE — FUNDAMENTAL INVESTIGATIONS OF THE BEHAVIOR OF AEROSOLS
INVESTIGATOR — S.K.FRIEDLANDER — JOHNS HOPKINS UNIV — BALTIMORE MD
SPONSOR — USPHS
PROJECT DATA — STARTED — SUPPORT BY CONTRACT

187 MARYLAND — KOPPERS COMPANY, INCORPORATED — BALTIMORE MD 187
TITLE — ACCUMULATION OF FUNCTIONAL AND DESIGN INFO ON ELECTROSTATIC PRECIPITATORS
INVESTIGATOR — J.L.MEREWAN — KOPPERS CO INC — BALTIMORE MD
SPONSOR — KOPPERS COMPANY, INCORPORATED
PROJECT DATA — STARTED 1960 — SUPPORT BY INTERNAL

188 MARYLAND — NATIONAL CANCER INSTITUTE — BETHESDA MD 188
TITLE — CARCINOGENIC BIOASSAYS OF URBAN AIR POLLUTANTS
INVESTIGATOR — W.C.HUEPER — NATL CANCER INST — BETHESDA MD
SPONSOR — NATIONAL CANCER INSTITUTE
PROJECT DATA — STARTED 1956 — SUPPORT BY INTERNAL

189 MARYLAND — NATIONAL CANCER INSTITUTE - PATHOLOGY LABORATORY — BETHESDA MD 189
TITLE — EFFECTS OF AIR POLLUTION ON RESPIRATORY SYSTEMS OF ANIMALS
INVESTIGATOR — E.M.HERROLD — NATL CANCER INST — BETHESDA MD
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL

190 MARYLAND — UNIVERSITY OF MARYLAND — BALTIMORE MD 190
TITLE — CHRONIC BRONCHITIS - STUDY OF DAY TO DAY VARIATION
INVESTIGATOR — W.S.SPICER — UNIV OF MARYLAND — BALTIMORE MD
SPONSOR — USPHS
PROJECT DATA — STARTED 1960 — SUPPORT BY GRANT — COST $ 80,000

191	MARYLAND	NUCLEAR DEFENSE LABORATORY			ARMY CHEM CEN MD	191
	TITLE	LOW-LEVEL RADIOACTIVE WASTE INCINERATOR				
	INVESTIGATOR	E,W,BLOORE	NUCLEAR DEFENSE LAB		ARMY CHEM CEN MD	
	SPONSOR	JOINT ARMY AND AEC				
	PROJECT DATA	STARTED 1961	SUPPORT BY OTHER			
192	MASSACHUSETTS	AIR FORCE CAMBRIDGE RESEARCH CENTER			BEDFORD MASS	192
	TITLE	FIELD DIFFUSION EXPERIMENTS WITH CONTINUOUS POINT SOURCE				
	INVESTIGATOR	D,A,HAUGEN	AF CAMBRIDGE RES LB	L G HANSCOM FIELD	BEDFORD MASS	
	SPONSOR	A F CAMBRIDGE RESEARCH LABS				
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST $300,000	
193	MASSACHUSETTS	HARVARD SCHOOL OF PUBLIC HEALTH			BOSTON MASS	193
	TITLE	RADIOAUTOGRAPHY IN LOCALIZATION OF INHALED PARTICLES				
	INVESTIGATOR	R,F,RANK	HARVARD UNIV	55 SHATTUCK STREET	BOSTON MASS	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT		COST $ 40,000	
194	MASSACHUSETTS	HARVARD SCHOOL OF PUBLIC HEALTH			BOSTON MASS	194
	TITLE	DETERMINATION OF EFFECT OF GENERAL,OCCUPATIONAL,AND PERSONAL AP ON MAN				
	INVESTIGATOR	R,G,FERRIS	HARVARD SCH PUB HEA	55 SHATTUCK STREET	BOSTON MASS	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT		COST $ 22,000	
195	MASSACHUSETTS	HARVARD SCHOOL OF PUBLIC HEALTH			BOSTON MASS	195
	TITLE	METHODS OF CONTROLLING AIR POLLUTION FROM STEEL PRODUCTION				
	INVESTIGATOR	L. SILVERMAN	HARVARD SCH PUB HEA	55 SHATTUCK ST	BOSTON MASS	
	SPONSOR					
	PROJECT DATA	STARTED 1953	SUPPORT BY CONTRACT			
196	MASSACHUSETTS	HARVARD SCHOOL OF PUBLIC HEALTH			BOSTON MASS	196
	TITLE	AIR + GAS CLEANING RESEARCH AT HARVARD AIR CLEANING LABORATORY				
	INVESTIGATOR	L. SILVERMAN	HARVARD SCH PUB HEA	55 SHATTUC STREET	BOSTON MASS	
	SPONSOR	USAEC				
	PROJECT DATA	STARTED 1947	SUPPORT BY CONTRACT			
197	MASSACHUSETTS	HARVARD SCHOOL OF PUBLIC HEALTH			BOSTON MASS	197
	TITLE	PHYSIOLOGICAL EFFECTS OF ATMOSPHERIC POLLUTANTS				
	INVESTIGATOR	M,D,AMDUR	HARVARD UNIV	55 SHATTUCK STREET	BOSTON MASS	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1955	SUPPORT BY GRANT		COST $ 40,000	
198	MASSACHUSETTS	ARTHUR D LITTLE INC			CAMBRIDGE MASS	198
	TITLE	EVALUATION OF DEVICE TO REDUCE CARBON MONOXIDE IN AUTOMOBILE EXHAUST				
	INVESTIGATOR	A.W.DOYLE	A D LITTLE INC	15 ACORN PARK	CAMBRIDGE MASS	
	SPONSOR	ARTHUR D LITTLE INC				
	PROJECT DATA	STARTED 1962	SUPPORT BY CONTRACT			
199	MASSACHUSETTS	MASSACHUSETTS INSTITUTE OF TECHNOLOGY			CAMBRIDGE MASS	199
	TITLE	MEASUREMENT IN HUMANS AS A CONSEQUENCE FROM NUCLEAR TESTING				
	INVESTIGATOR	R,D,EVANS	MASS INST OF TECH		CAMBRIDGE MASS	
	SPONSOR	USAEC				
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT			
200	MASSACHUSETTS	MASSACHUSETTS INSTITUTE OF TECHNOLOGY			CAMBRIDGE MASS	200
	TITLE	INSTRUMENTATION FOR CLOUD DROP SIZING				
	INVESTIGATOR	D,P,KEILY	MASS INST OF TECH	77 MASSACHUSETTS AVE	CAMBRIDGE MASS	
	SPONSOR	U S AIR FORCE				
	PROJECT DATA	STARTED 1954	SUPPORT BY CONTRACT		COST $ 20,000	

201 MASSACHUSETTS RILEY STOKER CORPORATION WORCESTER MASS 201
TITLE SEPARATION OF FLYASH FROM FLUE GAS STREAMS
INVESTIGATOR E.C.MILLER RILEY STOKER CORP 9 NEPONSET ST WORCESTER MASS
SPONSOR RILEY STOKER CORPORATION
PROJECT DATA STARTED 1958 SUPPORT BY INTERNAL

202 MASSACHUSETTS RILEY STOKER CORPORATION WORCESTER MASS 202
TITLE INVESTIGATION OF OXIDES OF NITROGEN AND SULPHUR IN FLUE GASES
INVESTIGATOR E.C.MILLER RILEY STOKER CORP 9 NEPONSET ST WORCESTER MASS
SPONSOR RILEY STOKER CORPORATION
PROJECT DATA STARTED 1957 SUPPORT BY INTERNAL

203 MASSACHUSETTS UNITED STATES INCINERATOR CORPORATION BOSTON MASS 203
TITLE FLY ASH CONTROL IN PORTABLE TYPE INCINERATORS
INVESTIGATOR F.X.FOSTER US INCINERATOR CORP 22 YEOMAN STREET BOSTON MASS
SPONSOR UNITED STATES INCINERATOR CORPORATION
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL

204 MICHIGAN AMERICAN-STANDARD INDUSTRIAL DIVISION DEARBORN MICH 204
TITLE RESEARCH ON DUST COLLECTION EQUIPMENT PROJECTS
INVESTIGATOR B. RASLAND AM-STND INDUS DIV 6111 TIREMAN AVENUE DEARBORN MICH
SPONSOR AMERICAN-STANDARD INDUSTRIAL DIVISION
PROJECT DATA STARTED 1957 SUPPORT BY INTERNAL

205 MICHIGAN CHRYSLER CORPORATION HIGHLAND PARK MICH 205
TITLE STUDIES ON VARIOUS FLAME TYPE AFTERBURNERS
INVESTIGATOR C.M.HEINEN CHRYSLER CORP 12800 OAKLAND HIGHLAND PARK MICH
SPONSOR CHRYSLER CORPORATION
PROJECT DATA STARTED SUPPORT BY INTERNAL

206 MICHIGAN DOW CHEMICAL COMPANY, MIDLAND DIVISION MIDLAND MICH 206
TITLE AIR POLLUTION POTENTIAL OF MANUFACTURING PROCESSES AND CONTROL OF THESE
INVESTIGATOR E.M.ILGENFRITZ DOW CHEM CO 574 BLDG. MAIN ST MIDLAND MICH
SPONSOR DOW CHEMICAL COMPANY
PROJECT DATA STARTED SUPPORT BY INTERNAL COST $ 50,000

207 MICHIGAN ETHYL CORPORATION FERNDALE MICH 207
TITLE SURVEY OF TRUCK AND BUS OPERATING MODES IN EACH OF EIGHT CITIES
INVESTIGATOR E.B.RIFKIN ETHYL CORPORATION 1600 W EIGHT MILE RD FERNDALE MICH
SPONSOR USPHS
PROJECT DATA STARTED 1961 SUPPORT BY CONTRACT COST $219,000

208 MICHIGAN INSTITUTE OF INDUSTRIAL HEALTH ANN ARBOR MICH 208
TITLE SOLID SORBENTS FOR COLLECTION OF ORGANOMETALLIC VAPORS
INVESTIGATOR H.J.MAGNUSON INST OF INDUS HEAL 1634 UNIV HOSPITAL ANN ARBOR MICH
SPONSOR USPHS
PROJECT DATA STARTED 1962 SUPPORT BY GRANT COST $ 1,000

209 MICHIGAN INSTITUTE OF INDUSTRIAL HEALTH ANN ARBOR MICH 209
TITLE DETERMINATION OF METALLORGANIC POLLUTANTS BY INSTRUMENTAL MEANS
INVESTIGATOR H.J.MAGNUSON INST OF INDUS HEAL 1634 UNIV HOSPITAL ANN ARBOR MICH
SPONSOR USPHS
PROJECT DATA STARTED 1962 SUPPORT BY GRANT COST $ 6,000

210 MICHIGAN INSTITUTE OF INDUSTRIAL HEALTH ANN ARBOR MICH 210
TITLE TRAINING PROGRAM FOR SPECIALISTS IN AIR POLLUTION
INVESTIGATOR H.J.MAGNUSON INST OF INDUS HEAL 1634 UNIV HOSPITAL ANN ARBOR MICH
SPONSOR USPHS
PROJECT DATA STARTED 1962 SUPPORT BY GRANT COST $ 51,000

211 MICHIGAN — INSTITUTE OF INDUSTRIAL HEALTH — ANN ARBOR MICH 211
TITLE — RELATION OF AIRBORNE LEAD TO POPULATION AND AUTO TRAFFIC DENSITIES
INVESTIGATOR — M.J.MAGNUSON — INST OF INDUS HEAL — 1634 UNIV HOSPITAL — ANN ARBOR MICH
SPONSOR — USPHS
PROJECT DATA — STARTED 1962 — SUPPORT BY GRANT — COST $ 4,000

212 MICHIGAN — MICHIGAN STATE UNIVERSITY — EAST LANSING MICH 212
TITLE — RELATION OF CLIMETOLOGICAL FACTORS TO NATURAL AND FALLOUT RADIOACTIVITY
INVESTIGATOR — S. SERAYA — MICH STATE UNIV — EAST LANSING MICH
SPONSOR — MICHIGAN STATE UNIVERSITY
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL — COST $ 10,000

213 MICHIGAN — UNIVERSITY OF MICHIGAN — ANN ARBOR MICH 213
TITLE — RAIN SCAVENGING OF AIRBORNE PARTICULATES
INVESTIGATOR — A.N.DINGLE — UNIV OF MICH — 5510 E ENG BLDG — ANN ARBOR MICH
SPONSOR — USAEC
PROJECT DATA — STARTED 1959 — SUPPORT BY CONTRACT — COST $ 20,000

214 MICHIGAN — UNIVERSITY OF MICHIGAN — ANN ARBOR MICH 214
TITLE — ATMOSPHERIC DIFFUSION NEAR BIG ROCK NUCLEAR POWER PLANT, CHARLEVOIX, MICH
INVESTIGATOR — E.W.HEWSON — UNIV OF MICH — 5060 E ENG BLDG — ANN ARBOR MICH
SPONSOR — CONSUMERS POWER COMPANY
PROJECT DATA — STARTED 1960 — SUPPORT BY CONTRACT — COST $ 41,000

215 MICHIGAN — UNIVERSITY OF MICHIGAN — ANN ARBOR MICH 215
TITLE — RELATION OF AIRBORNE LEAD TO POPULATION AND AUTOMOBILE TRAFFIC DENSITY
INVESTIGATOR — P.M.GIEVER — UNIV OF MICH — ANN ARBOR MICH
SPONSOR — UNIVERSITY OF MICHIGAN
PROJECT DATA — STARTED 1962 — SUPPORT BY INTERNAL — COST $ 4,000

216 MICHIGAN — UNIVERSITY OF MICHIGAN — ANN ARBOR MICH 216
TITLE — ATMOSPHERIC POLLUTION BY AEROALLERGENS-A METEOROLOGICAL STUDY
INVESTIGATOR — E.W.HEWSON — UNIV OF MICH — 5060 E ENG BLDG — ANN ARBOR MICH
SPONSOR — USPHS
PROJECT DATA — STARTED 1955 — SUPPORT BY GRANT — COST $ 39,000

217 MICHIGAN — UNIVERSITY OF MICHIGAN — ANN ARBOR MICH 217
TITLE — ATMOSPHERIC DIFFUSION IN TRANSITIONAL STATES
INVESTIGATOR — E.W.HEWSON — UNIV OF MICH — 5060 E ENG BLDG — ANN ARBOR MICH
SPONSOR — NATIONAL SCIENCE FOUNDATION
PROJECT DATA — STARTED 1960 — SUPPORT BY GRANT — COST $ 50,000

218 MICHIGAN — UNIVERSITY OF MICHIGAN — ANN ARBOR MICH 218
TITLE — RELATION OF COMBUSTION TO THE EMISSION OF ATMOSPHERIC CONTAMINANTS
INVESTIGATOR — W. HIRSKY — UNIV OF MICH — ANN ARBOR MICH
SPONSOR — GENERAL MOTORS CORPORATION
PROJECT DATA — STARTED 1962 — SUPPORT BY GRANT — COST $ 38,000

219 MICHIGAN — UNIVERSITY OF MICHIGAN — ANN ARBOR MICH 219
TITLE — ATMOSPHERIC POLLUTION BY AEROALLERGENS(R.O.REMINGTON)
INVESTIGATOR — R.O.REMINGTON — UNIV OF MICH — ANN ARBOR MICH
SPONSOR — USPHS
PROJECT DATA — STARTED 1962 — SUPPORT BY GRANT — COST $ 11,000

220 MICHIGAN — UNIVERSITY OF MICHIGAN — ANN ARBOR MICH 220
TITLE — ATMOSPHERIC POLLUTION BY AEROALLERGENS(J.M.SHELDON)
INVESTIGATOR — J.M.SHELDON — UNIV OF MICH — 1405 EAST ANN STREET — ANN ARBOR MICH
SPONSOR — USPHS
PROJECT DATA — STARTED 1954 — SUPPORT BY GRANT — COST $ 30,000

221	MICHIGAN	UNIVERSITY OF MICHIGAN				ANN ARBOR	MICH	221
	TITLE	ATMOSPHERIC POLLUTION BY AEROALLERGENS(W.W.WAGNER)						
	INVESTIGATOR	W.W.WAGNER	UNIV OF MICH			ANN ARBOR	MICH	
	SPONSOR	USPHS						
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT			COST $ 19,000		
222	MICHIGAN	WAYNE STATE UNIVERSITY				DETROIT	MICH	222
	TITLE	URBAN AIR STUDIES						
	INVESTIGATOR	R.G.SMITH	WAYNE STATE UNIV	1401 RIVARD ST		DETROIT	MICH	
	SPONSOR	USPHS						
	PROJECT DATA	STARTED 1960	SUPPORT BY CONTRACT			COST $154,000		
223	MICHIGAN	WAYNE STATE UNIVERSITY				DETROIT	MICH	223
	TITLE	BIOLOGICAL RESPONSES OF ANIMALS TO AIR CONTAINING AUTOMOTIVE EMISSIONS						
	INVESTIGATOR	A.J.VOMALD	WAYNE STATE UNIV	623 MULLETT		DETROIT	MICH	
	SPONSOR	USPHS						
	PROJECT DATA	STARTED 1960	SUPPORT BY CONTRACT			COST $172,000		
224	MINNESOTA	GENERAL MILLS INCORPORATED - ELECTRONICS DIVISION				MINNEAPOLIS	MINN	224
	TITLE	UPPER ATMOSPHERE MONITORING PROGRAM						
	INVESTIGATOR	R.C.WOOD	GEN MILLS INC	2003 E HENNEPIN AVE		MINNEAPOLIS	MINN	
	SPONSOR	USAEC						
	PROJECT DATA	STARTED 1956	SUPPORT BY CONTRACT			COST $150,000		
225	MINNESOTA	MINNESOTA MINING AND MANUFACTURING COMPANY				ST PAUL	MINN	225
	TITLE	DEVELOPMENT OF CERAMIC COMPONENTS FOR AUTO EXHAUST CONTROL DEVICES						
	INVESTIGATOR	W.B.SANFORD	MINN MINING AND MFG	367 GROVE STREET		ST PAUL	MINN	
	SPONSOR	MINNESOTA MINING AND MANUFACTURING COMPANY						
	PROJECT DATA	STARTED 1958	SUPPORT BY INTERNAL					
226	MINNESOTA	UNIVERSITY OF MINNESOTA				MINNEAPOLIS	MINN	226
	TITLE	RELATIONSHIP OF GRAIN INDUSTRY AIR POLLUTANTS TO BRONCHIAL ASTHMA						
	INVESTIGATOR	M.J.PAULUS	UNIV OF MINN	MAYO MEMORIAL HOSPTL		MINNEAPOLIS	MINN	
	SPONSOR	USPHS						
	PROJECT DATA	STARTED 1959	SUPPORT BY GRANT			COST $ 40,000		
227	MINNESOTA	UNIVERSITY OF MINNESOTA				MINNEAPOLIS	MINN	227
	TITLE	HUMAN POISONING BY SILAGE GAS						
	INVESTIGATOR	L.M.SCHUMAN	UNIV OF MINN			MINNEAPOLIS	MINN	
	SPONSOR							
	PROJECT DATA	STARTED 1956	SUPPORT BY GRANT			COST $109,000		
228	MINNESOTA	UNIVERSITY OF MINNESOTA				MINNEAPOLIS	MINN	228
	TITLE	STUDY OF AIR CLEANER ENGINEERING AND EVALUATION						
	INVESTIGATOR	K.T.WHITBY	UNIV OF MINN			MINNEAPOLIS	MINN	
	SPONSOR	USPHS						
	PROJECT DATA	STARTED 1956	SUPPORT BY GRANT			COST $ 23,000		
229	MINNESOTA	UNIVERSITY OF MINNESOTA				MINNEAPOLIS	MINN	229
	TITLE	GENERATION AND DECAY OF SMALL IONS						
	INVESTIGATOR	K.T.WHITBY	UNIV OF MINN			MINNEAPOLIS	MINN	
	SPONSOR	USPHS						
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT			COST $ 9,000		
230	MISSOURI	MIDWEST RESEARCH INSTITUTE				KANSAS CITY	MO	230
	TITLE	TOLERANCE CRITERIA FOR CONTINUOUS INHALATION EXPOSURE TO TOXIC MATERIAL						
	INVESTIGATOR	W. HOUSE	MIDWEST RES INST	425 VOLKER BLVD		KANSAS CITY	MO	
	SPONSOR							
	PROJECT DATA	STARTED	SUPPORT BY CONTRACT			COST $ 50,000		

231 MONTANA
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

THE ANACONDA COMPANY
VARIOUS STUDIES RELATING TO NON-FERROUS METALLURGY
H.E.FURGESON ANACONDA CO BOX 640 ANACONDA MONT 231
THE ANACONDA COMPANY ANACONDA MONT
STARTED SUPPORT BY INTERNAL

232 NEBRASKA
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

UNIVERSITY OF NEBRASKA
EFFECTS OF AIR POLLUTANTS UPON CELLS CULTIVATED IN VITRO
O.M.PACE UNIV OF NEB LINCOLN NEB 232
USPHS LINCOLN NEB
STARTED 1962 SUPPORT BY GRANT,INTERNAL COST $ 28,000

233 NEVADA
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

UNITED STATES WEATHER BUREAU
STUDIES OF RADIATION TRANSPORT AND DEPOSITION
F.D.CLUFF US WEATH RES STA 2753 SO HIGHLAND DR LAS VEGAS NEV 233
USAEC LAS VEGAS NEV
STARTED 1959 SUPPORT BY OTHER

234 NEW JERSEY
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

AMERICAN CYANAMID COMPANY
DEVELOPMENT OF CATALYTIC CONVERTER FOR AUTOMOBILE EXHAUST GAS
J.H.ROOK AM CYANAMID CO BERDAN AVENUE WAYNE NJ 234
AMERICAN CYANAMID COMPANY WAYNE NJ
STARTED SUPPORT BY INTERNAL

235 NEW JERSEY
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

NEW JERSEY STATE DEPARTMENT OF HEALTH - AIR SAN PROGRA
DIRECTIONAL AIR SAMPLER
W.A.MUNROE NJ STATE DEPT HEALT 17 WEST STATE ST TRENTON NJ 235
NEW JERSEY STATE DEPT OF HEALTH TRENTON NJ
STARTED 1957 SUPPORT BY OTHER

236 NEW JERSEY
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

PUROLATOR PRODUCTS INCORPORATED
PARTICULATE REMOVAL BY VARIOUS MATERIALS
H.C.MOUNEW PURLATOR PROD INC 970 NEW BRUNSWICK AV RAHWAY NJ 236
PUROLATOR PRODUCTS INCORPORATED RAHWAY NJ
STARTED 1958 SUPPORT BY INTERNAL COST $ 40,000

237 NEW JERSEY
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

RUTGERS UNIVERSITY
INVESTIGATION OF INJURY TO VEG BY PHYTOTOXIC GASES AND IND RESIDUES
R.H.DAINES RUTGERS UNIV NEW BRUNSWICK NJ 237
NEW JERSEY STATE FUNDS NEW BRUNSWICK NJ
STARTED 1946 SUPPORT BY OTHER

238 NEW JERSEY
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

RUTGERS UNIVERSITY
MEASUREMENT AND PROPERTY DAMAGING CHARACTERISTICS OF HYDROGEN SULFIDE
H. HEURELEKIAN RUTGERS UNIV NEW BRUNSWICK NJ 238
NATIONAL COUNCIL FOR STREAM IMPROVEMENT NEW BRUNSWICK NJ
STARTED 1957 SUPPORT BY GRANT COST $ 15,000

239 NEW JERSEY
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

RUTGERS UNIVERSITY
EVALUATION OF THE MEASUREMENT OF AIR CONTAMINANTS
R.M.MANGANELLI RUTGERS UNIV NEW BRUNSWICK NJ 239
USPHS NEW BRUNSWICK NJ
STARTED 1958 SUPPORT BY GRANT COST $ 6,000

240 NEW JERSEY
TITLE
INVESTIGATOR
SPONSOR
PROJECT DATA

RUTGERS UNIVERSITY
MEASUREMENT AND REACTIONS OF HYDROGEN SULFIDE IN OUTDOOR ATMOSPHERE
R.M.MANGANELLI RUTGERS UNIV NEW BRUNSWICK NJ 240
NATIONAL COUNCIL FOR STREAM IMPROVEMENT NEW BRUNSWICK NJ
STARTED 1959 SUPPORT BY GRANT COST $ 5,000

241 NEW JERSEY SARGENT INCINERATORS KEARNEY NJ 241
TITLE RESEARCH ON INCINERATION
INVESTIGATOR A.J.DOWER SARGENT INCINRTRS 610 DEVON ST KEARNEY NJ
SPONSOR SARGENT INCINERATORS
PROJECT DATA STARTED SUPPORT BY INTERNAL

242 NEW JERSEY TRUBEK LABORATORIES E RUTHERFORD NJ 242
TITLE CHEMICAL PLANT CONTRIBUTIONS TO ATMOSPHERIC CONTAMINATION
INVESTIGATOR M. KAPLAN TRUBEK LABS E RUTHERFORD NJ
SPONSOR TRUBEK LABORATORIES
PROJECT DATA STARTED 1960 SUPPORT BY COST $ 20,000

243 NEW JERSEY JOHN WOOD COMPANY - AIR POLLUTION CONTROL DIVISION FLORHAM PARK NJ 243
TITLE CONTROL OF MUNICIPAL INCINERATORS AND AEC INCINERATORS FOR CONTAMNTD WASTE
INVESTIGATOR J.W.LENEMAN JOHN WOOD CO FLORHAM PARK NJ
SPONSOR JOHN WOOD COMPANY
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL

244 NEW YORK AMERICAN GAS ASSOCIATION NEW YORK NY 244
TITLE POLLUTANTS FROM DOMESTIC GAS FIRED INCINERATORS
INVESTIGATOR T.L.ROBEY AM GAS ASSOC 420 LEXINGTON AVE NEW YORK NY
SPONSOR
PROJECT DATA STARTED 1959 SUPPORT BY CONTRACT COST $ 5,000

245 NEW YORK BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH YONKERS NY 245
TITLE FLUORINE CONTENT IN TISSUE OF PLANTS GROWN UNDER NATURAL HABITATS
INVESTIGATOR A.E.HITCHCOCK BOYCE THOMP INST 1086 N BROADWAY YONKERS NY
SPONSOR BOYCE THOMPSON INSTITUTE
PROJECT DATA STARTED 1950 SUPPORT BY CONTRACT,INTERNAL

246 NEW YORK BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH YONKERS NY 246
TITLE RATE OF ABSORPTION OF FLUORINE BY PLANTS GROWN IN INDUSTRIAL AREAS
INVESTIGATOR A.E.HITCHCOCK BOYCE THOMP INST 1086 N BROADWAY YONKERS NY
SPONSOR BOYCE THOMPSON INSTITUTE
PROJECT DATA STARTED 1950 SUPPORT BY CONTRACT,INTERNAL

247 NEW YORK BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH YONKERS NY 247
TITLE PENETRATION,TRANSLOCATION,AND ACCUMULATION SITES OF FLUORINE IN PLANTS
INVESTIGATOR A.E.HITCHCOCK BOYCE THOMP INST 1086 N BROADWAY YONKERS NY
SPONSOR BOYCE THOMPSON INSTITUTE
PROJECT DATA STARTED 1950 SUPPORT BY CONTRACT

248 NEW YORK BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH YONKERS NY 248
TITLE SAMPLING AND ANALYSIS FOR FLUORINE IN AIR AND PLANT TISSUE
INVESTIGATOR A.E.HITCHCOCK BOYCE THOMP INST 1086 N BROADWAY YONKERS NY
SPONSOR BOYCE THOMPSON INSTITUTE
PROJECT DATA STARTED 1950 SUPPORT BY CONTRACT,INTERNAL

249 NEW YORK BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH YONKERS NY 249
TITLE MINIMUM AMOUNT OF FLUORINE IN AIR AND PLANT TISSUE AFFECTING GROWTH
INVESTIGATOR A.E.HITCHCOCK BOYCE THOMP INST 1086 N BROADWAY YONKERS NY
SPONSOR BOYCE THOMPSON INSTITUE
PROJECT DATA STARTED 1950 SUPPORT BY CONTRACT,INTERNAL

250 NEW YORK BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH YONKERS NY 250
TITLE COMPARATIVE SUSCEPTIBILITY OF PLANTS TO DIFFERENT INDUSTRIAL GASES
INVESTIGATOR A.E.HITCHCOCK BOYCE THOMP INST 1086 N BROADWAY YONKERS NY
SPONSOR
PROJECT DATA STARTED 1950 SUPPORT BY CONTRACT

251	NEW YORK	BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH			YONKERS	NY	251
	TITLE	EFFECTS OF VARIOUS GASES AND MIXED GASES ON PLANTS					
	INVESTIGATOR	A.E.HITCHCOCK	BOYCE THOMP INST	1086 N BROADWAY	YONKERS	NY	
	SPONSOR						
	PROJECT DATA	STARTED 1950	SUPPORT BY CONTRACT				
252	NEW YORK	BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH			YONKERS	NY	252
	TITLE	EFFECT OF ECOLOGICAL CONDITIONS ON FLUORINE UPTAKE					
	INVESTIGATOR	A.E.HITCHCOCK	BOYCE THOMP INST	1086 N BROADWAY	YONKERS	NY	
	SPONSOR	BOYCE THOMPSON INSTITUTE					
	PROJECT DATA	STARTED 1950	SUPPORT BY CONTRACT,INTERNAL				
253	NEW YORK	BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH			YONKERS	NY	253
	TITLE	BIOCHEMICAL EFFECTS OF FLUORIDES ON CELL ACTIVITIES					
	INVESTIGATOR	L.H.WEINSTEIN	BOYCE THOMP INST	1086 N BROADWAY	YONKERS	NY	
	SPONSOR	BOYCE THOMPSON INSTITUTE					
	PROJECT DATA	STARTED 1950	SUPPORT BY CONTRACT,INTERNAL				
254	NEW YORK	BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH			YONKERS	NY	254
	TITLE	EFFECTS OF FLUORIDES ON PLANT SYSTEMS					
	INVESTIGATOR	L.H.WEINSTEIN	BOYCE THOMP INST	1086 N BROADWAY	YONKERS	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT		COST	$ 28,000	
255	NEW YORK	BROOKHAVEN NATIONAL LABORATORY			UPTON	NY	255
	TITLE	FIELD STUDIES OF DIFFUSION AND DEPOSITION OF SMALL PARTICLES					
	INVESTIGATOR	M.E.SMITH	BROOKHAVEN NATL LAB		UPTON	NY	
	SPONSOR	USAEC					
	PROJECT DATA	STARTED 1947	SUPPORT BY CONTRACT		COST	$200,000	
256	NEW YORK	CITY COLLEGE			NEW YORK	NY	256
	TITLE	STUDIES OF HETEROGENEOUS ODORANT SYSTEMS					
	INVESTIGATOR	A. TURK	CCNY	139ST AND CONVENT AV	NEW YORK	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1958	SUPPORT BY GRANT		COST	$ 22,000	
257	NEW YORK	CITY COLLEGE			NEW YORK	NY	257
	TITLE	ANALYTICAL AND ODOR STUDIES OF ORGANIC GASES IN AIR					
	INVESTIGATOR	A. TURK	CCNY	139ST AND CONVENT AV	NEW YORK	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1958	SUPPORT BY GRANT		COST	$ 22,000	
258	NEW YORK	CLARKSON COLLEGE OF TECHNOLOGY			POTSDAM	NY	258
	TITLE	PHYSICAL CHEMICAL STUDIES OF AEROSOLS					
	INVESTIGATOR	M. KERKER	CLARKSON COL TECH		POTSDAM	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT		COST	$ 19,000	
259	NEW YORK	COLUMBIA UNIVERSITY			NEW YORK	NY	259
	TITLE	COMPARISON OF INDOOR AND OUTDOOR DUST					
	INVESTIGATOR	M.B.JACOBS	COLUMBIA UNIV	600 W 168 ST	NEW YORK	NY	
	SPONSOR	COLUMBIA UNIVERSITY - SCHOOL OF PUB HEALTH AND ADMINIST HE					
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL				
260	NEW YORK	CORNELL UNIVERSITY MEDICAL COLLEGE			NEW YORK	NY	260
	TITLE	ATMOSPHERIC POLLUTION AND RESPIRATORY DISEASE					
	INVESTIGATOR	J.R.MCCARROLL	CORNELL UNIV MEDCOL	1300 YORK AVE	NEW YORK	NY	
	SPONSOR	NEW YORK CITY WELFARE MEDICAL CARE PROJECT					
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT		COST	$183,000	

261 NEW YORK — DEL ELECTRONICS CORPORATION — MT VERNON NY — 261
TITLE — ELECTROSTATIC PRECIPITATOR FOR STRATOSPHERIC SAMPLING FOR RADIOAC MATTER
INVESTIGATOR — M.J.DIGIOVANNI — DEL ELEC CORP — 521 HOMESTEAD AVE — MT VERNON NY
SPONSOR — USAEC
PROJECT DATA — STARTED 1960 — SUPPORT BY CONTRACT — COST $ 70,000

262 NEW YORK — EDISON ELECTRIC INSTITUTE — NEW YORK NY — 262
TITLE — POWER STATION STACK PLUME OPACITY MEASUREMENT AND EVALUATION
INVESTIGATOR — G.E.WATKINS — EDISN ELEC INST — 750 THIRD AVE — NEW YORK NY
SPONSOR — EDISON ELEC INST. AND US PUBLIC HEALTH SERVICE
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL,OTHER

263 NEW YORK — EDISON ELECTRIC INSTITUTE — NEW YORK NY — 263
TITLE — SULFUR REMOVAL FROM COAL AND FLUE GAS CONTAMINANTS CONTROL
INVESTIGATOR — G.E.WATKINS — EDISN ELEC INST — 750 THIRD AVE — NEW YORK NY
SPONSOR — EDISN ELEC INST,EDISN ILLUM COMPS,BITUMINOUS COAL RES INC
PROJECT DATA — STARTED 1958 — SUPPORT BY INTERNAL,OTHER

264 NEW YORK — FARRAND OPTICAL COMPANY, INCORPORATED — NEW YORK NY — 264
TITLE — PORTABLE LEAK DETECTOR FOR NOXIOUS GASES
INVESTIGATOR — P. NOLAN — FARRAND OPTICAL CO — 4401 BRONX BLVD — NEW YORK NY
SPONSOR — FARRAND OPTICAL COMPANY, INCORPORATED
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL

265 NEW YORK — FLANDERS FILTERS, INCORPORATED — RIVERHEAD NY — 265
TITLE — DEVELOPMENT OF HIGH EFFICIENCY DUST FILTER
INVESTIGATOR — D. TMIERINGER — FLANDERS FILT INC — P O BOX 718 — RIVERHEAD NY
SPONSOR — FLANDERS FILTERS INCORPORATED
PROJECT DATA — STARTED 1961 — SUPPORT BY

266 NEW YORK — INDUSTRIAL HYGIENE FOUNDATION — NEW YORK NY — 266
TITLE — THE STUDY OF BIOLOGIC FACTORS IN AIR POLLUTION
INVESTIGATOR — J.M.MCNERNEY — IND.HYGIENE FOUND. — 4400 FIFTH AVE. — NEW YORK NY
SPONSOR
PROJECT DATA — STARTED 1959 — SUPPORT BY CONTRACT — COST $ 15,000

267 NEW YORK — LONG ISLAND LIGHTING COMPANY — HICKSVILLE NY — 267
TITLE — DUST FALLOUT AND SULFUR DIOXIDE MEASUREMENTS
INVESTIGATOR — A.C.SUGDEN — L I LIGHTING CO — 175 OLD COUNTRY ROAD — HICKSVILLE NY
SPONSOR — LONG ISLAND LIGHTING COMPANY
PROJECT DATA — STARTED 1956 — SUPPORT BY INTERNAL — COST $ 2,000

268 NEW YORK — NEW YORK CITY DEPARTMENT OF AIR POLLUTION CONTROL — NEW YORK NY — 268
TITLE — METHODS FOR SAMPLING AND ANALYSES OF CARCINOGENIC HYDROCARBONS IN AIR
INVESTIGATOR — M.M.BRAVERMAN — DAPC - NYC — 15 PARK ROW — NEW YORK NY
SPONSOR — DEPARTMENT OF AIR POLLUTION CONTROL - CITY OF NEW YORK
PROJECT DATA — STARTED 1959 — SUPPORT BY INTERNAL

269 NEW YORK — NEW YORK CITY DEPARTMENT OF AIR POLLUTION CONTROL — NEW YORK NY — 269
TITLE — EVALUATION OF ABATEMENT DEVICES TO REDUCE MOTOR VEHICLE EMISSIONS
INVESTIGATOR — M.M.BRAVERMAN — DAPC - NYC — 15 PARK ROW — NEW YORK NY
SPONSOR — DEPARTMENT OF AIR POLLUTION CONTROL - CITY OF NEW YORK
PROJECT DATA — STARTED 1959 — SUPPORT BY INTERNAL

270 NEW YORK — NEW YORK CITY DEPARTMENT OF AIR POLLUTION CONTROL — NEW YORK NY — 270
TITLE — ROUTINE METHODS FOR SAMPLING AND ANALYSES OF OXIDANTS IN AIR
INVESTIGATOR — M.M.BRAVERMAN — DAPC - NYC — 15 PARK ROW — NEW YORK NY
SPONSOR — DEPARTMENT OF AIR POLLUTION CONTROL - CITY OF NEW YORK
PROJECT DATA — STARTED 1957 — SUPPORT BY INTERNAL

271 NEW YORK — NEW YORK CITY DEPARTMENT OF AIR POLLUTION CONTROL — NEW YORK NY 271
TITLE — EVALUATION OF ABATEMENT DEVICES TO REDUCE INCINERATOR EMISSIONS
INVESTIGATOR — M.M.BRAVERMAN — DAPC - NYC — 15 PARK ROW — NEW YORK NY
SPONSOR — DEPARTMENT OF AIR POLLUTION CONTROL - CITY OF NEW YORK
PROJECT DATA — STARTED 1957 — SUPPORT BY INTERNAL

272 NEW YORK — NEW YORK CITY DEPARTMENT OF AIR POLLUTION CONTROL — NEW YORK NY 272
TITLE — ROUTINE METHODS TO DETERMINE ODORS IN AIR AND DETERMINE SOURCES
INVESTIGATOR — M.M.BRAVERMAN — DAPC - NYC — 15 PARK ROW — NEW YORK NY
SPONSOR — DEPARTMENT OF AIR POLLUTION CONTROL - CITY OF NEW YORK
PROJECT DATA — STARTED 1956 — SUPPORT BY INTERNAL

273 NEW YORK — NEW YORK CITY DEPARTMENT OF AIR POLLUTION CONTROL — NEW YORK NY 273
TITLE — ROUTINE METHODS OF SAMPLING AND ANALYSES OF MOTOR VEHICLE EMISSIONS
INVESTIGATOR — M.M.BRAVERMAN — DAPC - NYC — 15 PARK ROW — NEW YORK NY
SPONSOR — DEPARTMENT OF AIR POLLUTION CONTROL - CITY OF NEW YORK
PROJECT DATA — STARTED 1958 — SUPPORT BY INTERNAL

274 NEW YORK — NEW YORK STATE AIR POLLUTION CONTROL BOARD — ALBANY NY 274
TITLE — CRANKCASE VENTILATION STUDY
INVESTIGATOR — D.C.HUNTER — NY STATE-AP CONT BD — 74 HOLLAND AVE — ALBANY NY
SPONSOR — NEW YORK STATE AIR POLLUTION CONTROL BOARD
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL — COST $ 5,000

275 NEW YORK — NEW YORK STATE AIR POLLUTION CONTROL BOARD — ALBANY NY 275
TITLE — ERIE COUNTY AIR POLLUTION-RESPIRATORY FUNCTION STUDY
INVESTIGATOR — W. WINKELSTEIN — NY STATE-AP CONT BD — 84 HOLLAND AVE — ALBANY NY
SPONSOR — NEW YORK STATE AIR POLLUTION CONTROL BOARD,USPHS
PROJECT DATA — STARTED 1960 — SUPPORT BY GRANT,CONTRACT,INTERNAL

276 NEW YORK — NEW YORK STATE DIVISION OF INDUSTRIAL HYGIENE — NEW YORK NY 276
TITLE — KINETIC GAS DILUTION APARATUS FOR CALIBRATION OF RECORDING INSTRUMENTS
INVESTIGATOR — M. KANE — NY DEPT LABOR — 80 CENTRE STREET — NEW YORK NY
SPONSOR — N Y STATE - DIV OF IND HYGIENE
PROJECT DATA — STARTED 1959 — SUPPORT BY INTERNAL

277 NEW YORK — NEW YORK STATE DIVISION OF INDUSTRIAL HYGIENE — NEW YORK NY 277
TITLE — AIR POLLUTION SOURCE INVENTORY SURVEY - ERIE COUNTY
INVESTIGATOR — S. MARLOW — NY DEPT LABOR — 80 CENTRE STREET — NEW YORK NY
SPONSOR — N Y STATE - DIV OF IND HYGIENE
PROJECT DATA — STARTED 1959 — SUPPORT BY INTERNAL — COST $ 50,000

278 NEW YORK — NEW YORK STATE DIVISION OF INDUSTRIAL HYGIENE — NEW YORK NY 278
TITLE — MATERIAL AND CONSTRUCTION STANDARDS FOR CENTRIFUGAL AIR CLEANERS
INVESTIGATOR — S. MARLOW — NY DEPT LABOR — 80 CENTRE STREET — NEW YORK NY
SPONSOR — N Y STATE - DIV OF IND HYGIENE
PROJECT DATA — STARTED 1959 — SUPPORT BY INTERNAL

279 NEW YORK — NEW YORK STATE DIVISION OF INDUSTRIAL HYGIENE — NEW YORK NY 279
TITLE — MATERIAL AND CONSTRUCTION STANDARDS FOR INTERMITTENT CLOTH AIR CLEANERS
INVESTIGATOR — S. MARLOW — NY DEPT LABOR — 80 CENTRE STREET — NEW YORK NY
SPONSOR — N Y STATE - DIV OF IND HYGIENE
PROJECT DATA — STARTED 1959 — SUPPORT BY INTERNAL

280 NEW YORK — NEW YORK STATE DIVISION OF INDUSTRIAL HYGIENE — NEW YORK NY 280
TITLE — DEVELOPMENT AND ASSEMBLY OF A PROTOTYPE MULTIPLE AIR SAMPLING STATION
INVESTIGATOR — S. MARLOW — NY DEPT LABOR — 80 CENTRE STREET — NEW YORK NY
SPONSOR — N Y STATE - DIV OF IND HYGIENE
PROJECT DATA — STARTED 1959 — SUPPORT BY INTERNAL

281	NEW YORK	NEW YORK STATE DIVISION OF INDUSTRIAL HYGIENE			NEW YORK	NY	281
	TITLE	INCREASING THE SENSITIVITY OF THE TITRILOG					
	INVESTIGATOR	J. SARFATY	NY DEPT LABOR	80 CENTRE STREET	NEW YORK	NY	
	SPONSOR	N Y STATE - DIV OF IND HYGIENE					
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL				
282	NEW YORK	NEW YORK STATE DIVISION OF INDUSTRIAL HYGIENE			NEW YORK	NY	282
	TITLE	IDENTIFICATION OF AIR POLLUTANTS BY CHEMICAL MICROSCOPY					
	INVESTIGATOR	E. STEIN	N Y DEPT LABOR	80 CENTRE STREET	NEW YORK	NY	
	SPONSOR	N Y STATE DEPT OF LABOR					
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL				
283	NEW YORK	NEW YORK STATE DIVISION OF INDUSTRIAL HYGIENE			NEW YORK	NY	283
	TITLE	EMISSION DATA FROM OPEN SURFACE TANK OPERATIONS					
	INVESTIGATOR	J. SZABOL	NY DEPT LABOR	80 CENTRE STREET	NEW YORK	NY	
	SPONSOR	N Y STATE - DIV OF IND HYGIENE					
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL				
284	NEW YORK	NEW YORK STATE MUSEUM AND SCIENCE SERVICE			ALBANY	NY	284
	TITLE	TAGGING AND SAMPLING RAGWEED POLLEN					
	INVESTIGATOR	E.C.OGDEN	NY MUSEUM AND SCI		ALBANY	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1957	SUPPORT BY GRANT		COST	$ 40,000	
285	NEW YORK	NEW YORK UNIVERSITY			NEW YORK	NY	285
	TITLE	INTRAPULMONARY DISTRIBUTION OF GASES AND AEROSOLS					
	INVESTIGATOR	B. ALTSHULER	NY UNIV MED CEN	550 FIRST AVENUE	NEW YORK	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1958	SUPPORT BY GRANT		COST	$ 47,000	
286	NEW YORK	NEW YORK UNIVERSITY			NEW YORK	NY	286
	TITLE	WIND TUNNEL EXPERIMENTS TO DETERMINE DIFFUSION					
	INVESTIGATOR	J. HALITSKY	N Y UNIV	UNIVERSITY HEIGHTS	NEW YORK	NY	
	SPONSOR	USPHS,USWB, AMERICAN SOCIETY OF HEATING,REFRIG,AND AIR CON					
	PROJECT DATA	STARTED 1963	SUPPORT BY CONTRACT		COST	$ 80,000	
287	NEW YORK	NEW YORK UNIVERSITY			NEW YORK	NY	287
	TITLE	EFFECT OF TURBULENCE ON GAS DIFFUSION AROUND OBSTACLES					
	INVESTIGATOR	J. HALITSKY	N Y UNIV	UNIVERSITY HEIGHTS	NEW YORK	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT		COST	$ 57,000	
288	NEW YORK	NEW YORK UNIVERSITY			NEW YORK	NY	288
	TITLE	GAS DIFFUSION AROUND BUILDINGS HAVING SHORT CHIMNEYS AND VENTS					
	INVESTIGATOR	J. HALITSKY	N Y UNIV	UNIVERSITY HEIGHTS	NEW YORK	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT		COST	$ 5,000	
289	NEW YORK	NEW YORK UNIVERSITY			NEW YORK	NY	289
	TITLE	ATMOSPHERIC POLLUTION AND RESPIRATORY DISEASE IN NEW YORK CITY					
	INVESTIGATOR	W.T.INGRAM	N Y UNIV	UNIVERSITY HEIGHTS	NEW YORK	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT		COST	$ 43,000	
290	NEW YORK	NEW YORK UNIVERSITY			NEW YORK	NY	290
	TITLE	PERSONAL AIR POLLUTANT MONITORING DEVICE					
	INVESTIGATOR	W.T.INGRAM	N Y UNIV	UNIVERSITY HEIGHTS	NEW YORK	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY CONTRACT		COST	$ 13,000	

291	NEW YORK	NEW YORK UNIVERSITY			NEW YORK	NY	291
	TITLE	SMOKELESS BURNING OF INSULATED COPPER WIRE					
	INVESTIGATOR	E,R,KAISER	N Y UNIV	W 177TH ST, CEDAR AV	NEW YORK	NY	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT		COST	$ 10,000	
292	NEW YORK	PUBLIC HEALTH RESEARCH INSTITUTE FOR CHRONIC DISEASE			BUFFALO	NY	292
	TITLE	ERIE COUNTY AIR POLLUTION-RESPIRATORY FUNCTION STUDY					
	INVESTIGATOR	W, WINKELSTEIN	PUB HEAL INST	2211 MAIN STREET	BUFFALO	NY	
	SPONSOR	USPHS,ERIE COUNTY HEALTH DEPT,STATE DEPT OF HEALTH					
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT,CONTRACT,INTERNAL		COST	$ 50,000	
293	NEW YORK	STAUFFER CHEMICAL COMPANY			NEW YORK	NY	293
	TITLE	GENERAL RESEARCH - SO2,SO3,FLUORIDE					
	INVESTIGATOR	M,V,ANTHONY	STAUFFER CHEM CO	380 MADISON AVENUE	NEW YORK	NY	
	SPONSOR	STAUFFER CHEMICAL COMPANY					
	PROJECT DATA	STARTED	SUPPORT BY INTERNAL				
294	NEW YORK	J P STEVENS AND COMPANY INCORPORATED			NEW YORK	NY	294
	TITLE	DEVELOPMENT OF GLASS FABRIC MEDIA FOR FILTER BAG SYSTEMS					
	INVESTIGATOR	I,J,GUSMAN	JP STEVENS, CO INC	1460 BROADWAY	NEW YORK	NY	
	SPONSOR	J P STEVENS AND COMPANY INCORPORATED					
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL				
295	NEW YORK	TEXACO, INCORPORATED			BEACON	NY	295
	TITLE	INTERNAL COMBUSTION ENGINE EXHAUST AS AN AIR POLLUTANT					
	INVESTIGATOR	F,J,MOORE	TEXACO INC	TEXACO RESEARCH CENT	BEACON	NY	
	SPONSOR	TEXACO INCORPORATED					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$323,000	
296	NEW YORK	UNITED STATES ATOMIC ENERGY COMMISSION			NEW YORK	NY	296
	TITLE	DEVELOPMENT OF SIMPLE APPARATUS FOR IN-PLACE TESTING OF AIR CLEANING FLTRS					
	INVESTIGATOR	A,J,BRESLIN	USAEC	376 HUDSON STREET	NEW YORK	NY	
	SPONSOR	USAEC					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL				
297	NEW YORK	UNITED STATES ATOMIC ENERGY COMMISSION			NEW YORK	NY	297
	TITLE	COMMERCIAL INCINERATION TO REDUCE VOLUME OF COMBUSTBLE RADIOACTIVE WASTES					
	INVESTIGATOR	P, LOYSEN	USAEC	376 HUDSON ST	NEW YORK	NY	
	SPONSOR	USAEC					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL				
298	NEW YORK	UNIVERSITY OF BUFFALO			BUFFALO	NY	298
	TITLE	STUDIES ON EFFECTS OF GAS PARTIAL PRESSURES ON CENTRAL NERVOUS SYSTEM					
	INVESTIGATOR	H,W,GILLEN	UNIV OF BUFFALO	462 GRIDER STREET	BUFFALO	NY	
	SPONSOR	US NAVAL RESEARCH					
	PROJECT DATA	STARTED 1958	SUPPORT BY CONTRACT		COST	$ 17,000	
299	NEW YORK	VON BRAND FILTERING RECORDERS			HOPEWELL JUNCTNY		299
	TITLE	EXHAUST PATTERNS OF ENGINES AND THEIR SIGNIFICANCE					
	INVESTIGATOR	E,K,VON BRAND	VON BRAND FILT RECS		HOPEWELL JUNCTNY		
	SPONSOR	VON BRAND FILTERING RECORDERS					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL				
300	NEW YORK	YESHIVA UNIVERSITY - ALBERT EINSTEIN COLLEGE OF MED			NEW YORK	NY	300
	TITLE	AIR POLLUTION, METEOROLOGY, MORBIDITY, AND MORTALITY					
	INVESTIGATOR	L, GREENBURG	YESHIVA UNIV	1300 MORRIS PARK AVE	NEW YORK	NY	
	SPONSOR	USPHS, LOCAL AGENCY -					
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT		COST	$ 60,000	

301 NORTH CAROLINA UNIVERSITY OF NORTH CAROLINA
TITLE RESPONSE OF MICE TO VARIOUS SYNTHETIC ATMOSPHERES
INVESTIGATOR L.A.RIPPERTON UNIV OF N C
SPONSOR USPHS
PROJECT DATA STARTED 1962 SUPPORT BY GRANT
CHAPEL HILL NC 301
CHAPEL HILL NC
COST $ 37,000

302 NORTH CAROLINA UNIVERSITY OF NORTH CAROLINA
TITLE EFFECTS OF TEMPERATURE AND PRESSURE ON PHOTOCHEMICAL OXIDANT PRODUCTION
INVESTIGATOR L.A.RIPPERTON UNIV OF N C
SPONSOR USPHS, UNC RESEARCH COUNCIL
PROJECT DATA STARTED 1959 SUPPORT BY GRANT,INTERNAL
CHAPEL HILL NC 302
CHAPEL HILL NC
COST $ 1,000

303 NORTH CAROLINA UNIVERSITY OF NORTH CAROLINA
TITLE MISCELLANEOUS STUDIES
INVESTIGATOR L.A.RIPPERTON UNIV OF N C
SPONSOR UNIVERSITY OF NORTH CAROLINA
PROJECT DATA STARTED 1959 SUPPORT BY INTERNAL
CHAPEL HILL NC 303
CHAPEL HILL NC
COST $ 1,000

304 NORTH CAROLINA UNIVERSITY OF NORTH CAROLINA
TITLE OXIDATION OF ORGANIC COMPOUNDS IN THE ATMOSPHERE
INVESTIGATOR L.A.RIPPERTON UNIV OF N C
SPONSOR USPHS
PROJECT DATA STARTED 1958 SUPPORT BY GRANT
CHAPEL HILL NC 304
CHAPEL HILL NC
COST $ 16,000

305 OHIO BABCOCK AND WILCOX COMPANY
TITLE METHODS OF CONTROLLING OR REMOVING SULFUR COMPOUNDS FROM BOILER FLUE GASES
INVESTIGATOR D.M.BARNHART BABCOCK-WILCOX CO HARRSBRG-SAWBURG RDS
SPONSOR BABCOCK AND WILCOX COMPANY
PROJECT DATA STARTED 1957 SUPPORT BY INTERNAL
ALLIANCE OHIO 305
ALLIANCE OHIO
COST $ 5,000

306 OHIO BABCOCK AND WILCOX COMPANY
TITLE ANALYZING COMBUSTIBLES AND SULFUR COMPOUNDS IN FLUE GASES
INVESTIGATOR D.M.BARNHART BABCOCK-WILCOX CO HARRSBRG-SAWBURG RDS
SPONSOR BABCOCK AND WILCOX COMPANY
PROJECT DATA STARTED 1962 SUPPORT BY INTERNAL
ALLIANCE OHIO 306
ALLIANCE OHIO
COST $ 3,000

307 OHIO BABCOCK AND WILCOX COMPANY
TITLE REDUCING NITRIC OXIDE FORMATION IN BOILER FURNACES
INVESTIGATOR D.M.BARNHART BABCOCK-WILCOX CO HARRSBRG-SAWBURG RDS
SPONSOR BABCOCK AND WILCOX COMPANY
PROJECT DATA STARTED 1957 SUPPORT BY INTERNAL
ALLIANCE OHIO 307
ALLIANCE OHIO
COST $ 2,000

308 OHIO BABCOCK AND WILCOX COMPANY
TITLE DETERMINATION OF PARTICLE SIZE DISTRIBUTION OF FLY ASHES WITH COULTER
INVESTIGATOR D.M.BARNHART BABCOCK-WILCOX CO HARRSBRG-SAWBURG RDS
SPONSOR BABCOCK AND WILCOX COMPANY
PROJECT DATA STARTED 1962 SUPPORT BY INTERNAL
ALLIANCE OHIO 308
ALLIANCE OHIO
COST $ 2,000

309 OHIO BABCOCK AND WILCOX COMPANY
TITLE METHODS OF REMOVING CHEMICAL FUMF AND SULFUR FROM STACK GAS
INVESTIGATOR H.P.MARKANT BABCOCK-WILCOX CO HARRSBRG-SAWBURG RDS
SPONSOR BABCOCK AND WILCOX COMPANY
PROJECT DATA STARTED 1953 SUPPORT BY INTERNAL
ALLIANCE OHIO 309
ALLIANCE OHIO
COST $ 20,000

310 OHIO BABCOCK AND WILCOX COMPANY
TITLE METHODS OF REMOVING PARTICULATES FROM FLUE GASES IN A COAL FIRED UNIT
INVESTIGATOR W.L.SAGE BABCOCK-WILCOX CO HARRSBRG-SAWBURG RDS
SPONSOR BABCOCK AND WILCOX COMPANY
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL
ALLIANCE OHIO 310
ALLIANCE OHIO
COST $ 40,000

311 OHIO BARNEBEY - CHENEY COMPANY COLUMBUS OHIO 311
TITLE APPLICATION OF ACTIVATED CARBON CONTROL EQUIPMENT
INVESTIGATOR M.L.BARNEBEY BARNEBEY CHENEY CO CASSIDY AT EIGHTH COLUMBUS OHIO
SPONSOR BARNEBEY CHENEY COMPANY
PROJECT DATA STARTED 1940 SUPPORT BY INTERNAL COST $ 30,000

312 OHIO BATTELLE MEMORIAL INSTITUTE COLUMBUS OHIO 312
TITLE POLLUTANTS FROM VARIOUS PROCESSES AND THEIR ABATEMENT
INVESTIGATOR R.B.ENGDAHL BATTELLE MEM INST 505 KING AVENUE COLUMBUS OHIO
SPONSOR
PROJECT DATA STARTED 1962 SUPPORT BY CONTRACT

313 OHIO CASE INSTITUTE OF TECHNOLOGY CLEVELAND OHIO 313
TITLE BASIC STUDY OF WET SCRUBBERS FOR AIR POLLUTION CONTROL
INVESTIGATOR S. CALVERT CASE INST OF TECH UNIVERSITY CIRCLE CLEVELAND OHIO
SPONSOR USPHS
PROJECT DATA STARTED 1958 SUPPORT BY GRANT COST $ 29,000

314 OHIO CASE INSTITUTE OF TECHNOLOGY CLEVELAND OHIO 314
TITLE EFFECT OF AIR CONTAMINANTS ON ATMOSPHERIC IONS
INVESTIGATOR B.J.STEIGERWALD CASE INST OF TECH UNIVERSITY CIRCLE CLEVELAND OHIO
SPONSOR CASE INST TECH, USPHS
PROJECT DATA STARTED 1961 SUPPORT BY CONTRACT,INTERNAL COST $ 14,000

315 OHIO CITY OF CINCINNATI BUREAU OF AIR POLLUTION CONTROL CINCINNATI OHIO 315
TITLE CONTINUOUS AIR MONITORING PROGRAM
INVESTIGATOR C.E.SCHUMANN APC BUREAU - CINCIN 2400 BEEKMAN ST CINCINNATI OHIO
SPONSOR CITY OF CINCINNATI
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL

316 OHIO CITY OF CINCINNATI BUREAU OF AIR POLLUTION CONTROL CINCINNATI OHIO 316
TITLE MOTORIST EXPOSURE TO ALDEHYDES FROM DIESEL BUSES
INVESTIGATOR C.E.SCHUMANN APC BUREAU - CINCIN 2400 BEEKMAN ST CINCINNATI OHIO
SPONSOR CITY OF CINCINNATI
PROJECT DATA STARTED 1962 SUPPORT BY INTERNAL

317 OHIO CITY OF CINCINNATI BUREAU OF AIR POLLUTION CONTROL CINCINNATI OHIO 317
TITLE CONTINUOUS DUST FALL SURVEY IN THE CITY OF CINCINNATI
INVESTIGATOR C.E.SCHUMANN APC BUREAU - CINCIN 2400 BEEKMAN ST CINCINNATI OHIO
SPONSOR CITY OF CINCINNATI
PROJECT DATA STARTED 1931 SUPPORT BY INTERNAL

318 OHIO CITY OF CINCINNATI BUREAU OF AIR POLLUTION CONTROL CINCINNATI OHIO 318
TITLE MEASUREMENTS OF THE SOILING PROPERTIES OF THE ATMOSPHERE IN CINCINNATI
INVESTIGATOR C.E.SCHUMANN APC BUREAU - CINCIN 2400 BEEKMAN ST CINCINNATI OHIO
SPONSOR CITY OF CINCINNATI
PROJECT DATA STARTED 1955 SUPPORT BY INTERNAL

319 OHIO CITY OF CINCINNATI BUREAU OF AIR POLLUTION CONTROL CINCINNATI OHIO 319
TITLE ADHESIVE-SURFACE SAMPLING FOR WIND-BLOWN PARTICULATES
INVESTIGATOR C.E.SCHUMANN APC BUREAU - CINCIN 2400 BEEKMAN ST CINCINNATI OHIO
SPONSOR CITY OF CINCINNATI
PROJECT DATA STARTED 1955 SUPPORT BY INTERNAL

320 OHIO CITY OF CINCINNATI BUREAU OF AIR POLLUTION CONTROL CINCINNATI OHIO 320
TITLE USE OF ADHESIVE-COATED PAPER FOR ESTIMATING INCINERATOR PARTICULATE EMISNS
INVESTIGATOR C.E.SCHUMANN APC BUREAU - CINCIN 2400 BEEKMAN ST CINCINNATI OHIO
SPONSOR CITY OF CINCINNATI
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL

321 OHIO — CITY OF CINCINNATI BUREAU OF AIR POLLUTION CONTROL — CINCINNATI OHIO 321
TITLE — SURVEYS OF SULFUR DIOXIDE IN THE CITY OF CINCINNATI
INVESTIGATOR — C.E.SCHUMANN — APC BUREAU - CINCIN — 2400 BEEKMAN ST — CINCINNATI OHIO
SPONSOR — CITY OF CINCINNATI
PROJECT DATA — STARTED 1955 — SUPPORT BY INTERNAL

322 OHIO — CITY OF CINCINNATI BUREAU OF AIR POLLUTION CONTROL — CINCINNATI OHIO 322
TITLE — CONTINUOUS MEASUREMENTS OF OXIDANT LEVELS IN THE CITY OF CINCINNATI
INVESTIGATOR — C.E.SCHUMANN — APC BUREAU - CINCIN — 2400 BEEKMAN ST — CINCINNATI OHIO
SPONSOR — CITY OF CINCINNATI
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL

323 OHIO — CON-GAS SERVICE CORPORATION — CLEVELAND OHIO 323
TITLE — TESTING COMMERCIAL SIZED GAS FIRED INCINERATORS
INVESTIGATOR — F.E.VANDAVEER — CON-GAS SERV CORP — 1201 EAST 55TH ST — CLEVELAND OHIO
SPONSOR — CON-GAS SERVICE CORPORATION
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL

324 OHIO — HEIL PROCESS EQUIPMENT CORPORATION — CLEVELAND OHIO 324
TITLE — GAS ABSORPTION AND DUST REMOVAL STUDIES
INVESTIGATOR — J.R.FISCHER — HEIL PROC EQUIP COR — 12901 ELMWOOD — CLEVELAND OHIO
SPONSOR — HEIL PROCESS EQUIPMENT CORPORATION
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL

325 OHIO — OHIO STATE UNIVERSITY — COLUMBUS OHIO 325
TITLE — MECHANISM OF HOMOGENEOUS AND HETEROGENEOUS PHOTO-OXIDATIONS
INVESTIGATOR — J.G.CALVERT — OHIO STATE UNIV — 88 WEST 18TH AVE — COLUMBUS OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY GRANT — COST $ 12,000

326 OHIO — OHIO STATE UNIVERSITY — COLUMBUS OHIO 326
TITLE — THE ROLE OF AIR POLLUTION IN ANIMAL DISEASES
INVESTIGATOR — C.R.COLE — OHIO STATE UNIV — 1925 COFFEY RD — COLUMBUS OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1957 — SUPPORT BY CONTRACT — COST $ 10,000

327 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 327
TITLE — REACTIONS OF SIMPLE AND MULTICOMPONENT SYSTEMS OF AIR POLLUTANTS
INVESTIGATOR — A.P.ALTSHULLER — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1956 — SUPPORT BY INTERNAL — COST $ 30,000

328 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 328
TITLE — DETAILED ANALYSIS OF AIR CONTAMINANTS
INVESTIGATOR — A.P.ALTSHULLER — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1956 — SUPPORT BY INTERNAL — COST $100,000

329 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 329
TITLE — LOS ANGELES SAMPLING AND ANALYSIS FIELD STUDY
INVESTIGATOR — A.P.ALTSHULLER — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL — COST $ 5,000

330 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 330
TITLE — ADAPTION OF PHYSICAL METHODS FOR ANALYSIS OF AIR POLLUTANTS TO FIELD USE
INVESTIGATOR — A.P.ALTSHULLER — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1956 — SUPPORT BY INTERNAL — COST $ 10,000

331 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR PLANT INDICATORS OF AIR POLLUTION AND AIR POLLUTANTS
SPONSOR C.S.BRANDT DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 331
PROJECT DATA USPHS CINCINNATI OHIO
STARTED 1956 SUPPORT BY INTERNAL COST $ 86,000

332 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR QUANTITATIVE EFFECTS OF METEOROLOGICAL PARAMETERS ON AIR QUALITY
SPONSOR J.F.CLARKE DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 332
PROJECT DATA USPHS CINCINNATI OHIO
STARTED 1955 SUPPORT BY INTERNAL COST $ 22,000

333 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR VERTICAL AIR SAMPLING OVER URBAN AREAS
SPONSOR G.A.CLEEVES DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 333
PROJECT DATA USPHS CINCINNATI OHIO
STARTED 1957 SUPPORT BY INTERNAL COST $ 16,000

334 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR AUTO EXHAUST INSTRUMENTATION
SPONSOR W.L.COFFEY DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 334
PROJECT DATA USPHS CINCINNATI OHIO
STARTED 1960 SUPPORT BY INTERNAL COST $ 14,000

335 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR HIGH-VOLUME SELECTIVE PARTICLE SIZE SAMPLER
SPONSOR W.D.CONNER DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 335
PROJECT DATA USPHS CINCINNATI OHIO
STARTED 1961 SUPPORT BY INTERNAL COST $ 8,000

336 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR GROSS GAS POLLUTANTS SAMPLER
SPONSOR W.D.CONNER DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 336
PROJECT DATA USPHS CINCINNATI OHIO
STARTED 1961 SUPPORT BY INTERNAL COST $ 8,000

337 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR OZONE ANALYSIS BY PHOTOMETRIC MEASUREMENT OF RUBBER STRETCH
SPONSOR E.J.CORDIER DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 337
PROJECT DATA USPHS CINCINNATI OHIO
STARTED 1961 SUPPORT BY INTERNAL COST $ 12,000

338 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR VISION OBSCURATION BY EMISSIONS FROM POWER-PLANT STACKS
SPONSOR W.L.CRIDER DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 338
PROJECT DATA USPHS, EDISON ELECTRIC INSTITUTE CINCINNATI OHIO
STARTED 1961 SUPPORT BY INTERNAL,OTHER COST $ 50,000

339 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR SOURCE EMISSION FIELD EVALUATIONS - COAL FIRED POWER PLANTS
SPONSOR S.T.CUFFE DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 339
PROJECT DATA USPHS CINCINNATI OHIO
STARTED 1961 SUPPORT BY INTERNAL COST $ 48,000

340 OHIO
TITLE PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION
INVESTIGATOR MINERAL ACID AND ALKALI MANUFACTURE
SPONSOR S.T.CUFFE DAP - USPHS 4676 COLUMBIA PKWY CINCINNATI OHIO 340
PROJECT DATA USPHS CINCINNATI OHIO
STARTED 1962 SUPPORT BY INTERNAL COST $ 15,000

341	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	341
	TITLE	DETECTION OF RESPIRATORY DISEASES IN ANIMALS				
	INVESTIGATOR	G,A,FAIRCHILD	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST $ 12,000	
342	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	342
	TITLE	ATTENUATION OF SOLAR RADIATION BY THE AIR POLLUTION ENVELOPE				
	INVESTIGATOR	J,P,FLESCH	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL		COST $ 10,000	
343	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	343
	TITLE	PARTICULATE CONTROL STUDIES - FILTRATION DESIGN CRITERIA STUDIES				
	INVESTIGATOR	W,M,HAAGK	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1956	SUPPORT BY INTERNAL		COST $ 39,000	
344	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	344
	TITLE	MEASUREMENT OF URINARY METABOLITES AS INDICATOR OF AIR POLLUTION EFFECTS				
	INVESTIGATOR	J,A,HATMAWAY	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST $ 14,000	
345	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	345
	TITLE	LEWISTON, IDAHO-CLARKSTON, WASHINGTON AIR POLLUTION STUDY				
	INVESTIGATOR	M,D,HIGH	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST $ 20,000	
346	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	346
	TITLE	BIRMINGHAM, ALABAMA SHORT TERM AIR QUALITY STUDY				
	INVESTIGATOR	S,M,NOCHMEISER	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST $ 3,000	
347	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	347
	TITLE	RELATIONSHIP OF VISIBILITY TO COMMUNITY AIR POLLUTION LEVELS				
	INVESTIGATOR	G,C,HOLZWORTH	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1958	SUPPORT BY INTERNAL		COST $ 20,000	
348	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	348
	TITLE	BIOLOGICAL EFFECTS OF SIMULATED AUTO EXHAUST CONTAMINATED ATMOSPHERES				
	INVESTIGATOR	F,G,MUETER	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL		COST $334,000	
349	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	349
	TITLE	AIR POLLUTION SURVEY OF BERLIN, NEW HAMPSHIRE				
	INVESTIGATOR	P,A,KENLINE	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST $ 2,000	
350	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI OHIO	350
	TITLE	IRRADIATED AUTO EXHAUST STUDIES				
	INVESTIGATOR	M,W,KORTH	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI OHIO	
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL		COST $ 62,000	

351	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 351
	TITLE	ANALOG-TO-DIGITAL INSTRUMENTATION FOR AIR POLLUTION MEASUREMENTS				
	INVESTIGATOR	M.D.LAY	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$ 12,000
352	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 352
	TITLE	SUMNER TUNNEL STUDY				
	INVESTIGATOR	R.I.LARSEN	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$ 15,000
353	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 353
	TITLE	METEOROLOGICAL INSTRUMENTATION IN AIR POLLUTION STUDIES				
	INVESTIGATOR	T. LEMMONS	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST	$ 12,000
354	OHIO	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 354
	TITLE	ATMOSPHERIC LEAD PROJECT				
	INVESTIGATOR	J.M.LUDWIG	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL		COST	$100,000
355	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 355
	TITLE	ATMOSPHERIC TURBIDITY AND ITS EFFECTS ON URBAN POLLUTION ENVELOPES				
	INVESTIGATOR	R.A.MCCORMICK	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST	$ 9,000
356	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 356
	TITLE	EFFECT OF NITRO-OLEFIN EXPOSURE ON PHYSIOLOGICAL FUNCTION OF GUINEA PIGS				
	INVESTIGATOR	S.D.MURPHY	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$ 12,000
357	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 357
	TITLE	BEHAVIORAL CHANGES IN ANIMALS AND APPLICATION TO AIR POLLUTANT STUDIES				
	INVESTIGATOR	S.D.MURPHY	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST	$ 7,000
358	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 358
	TITLE	EFFECTS OF GASEOUS PHOTOCHEMICAL SMOG ON LABORATORY ANIMALS				
	INVESTIGATOR	S.D.MURPHY	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL		COST	$ 51,000
359	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 359
	TITLE	EFFECT ON TISSUE ENZYMES OF ANIMAL EXPOSURE TO AIR POLLUTANTS				
	INVESTIGATOR	S.D.MURPHY	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL		COST	$ 39,000
360	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO 360
	TITLE	MASS LOADING ANALYZER FOR SUSPENDED PARTICULATE				
	INVESTIGATOR	J.S.NADER	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO
	SPONSOR	USPHS				
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL		COST	$ 10,000

361	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	361
	TITLE	LIGHT SCATTERING INSTRUMENTATION FOR PARTICLE ANALYSIS					
	INVESTIGATOR	J.S.NADLER	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL		COST	$ 10,000	
362	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	362
	TITLE	METEOROLOGICAL EFFECTS ON CHEMICAL COMPOSITION OF PRECIPITATION IN CITIES					
	INVESTIGATOR	L.E.NIEMEYER	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST	$ 12,000	
363	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	363
	TITLE	URBAN CLIMATOLOGY OF METEOROLOGICAL FACTORS AFFECTING MOVEMENT OF ATM POLL					
	INVESTIGATOR	F. POOLER	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST	$ 12,000	
364	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	364
	TITLE	DEVELOPMENT OF PORTABLE INSTRUMENT FOR PULMONARY FUNCTION MEASUREMENT					
	INVESTIGATOR	A.A.ROBERTS	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1958	SUPPORT BY INTERNAL		COST	$ 12,000	
365	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	365
	TITLE	CHEMICAL ANALYSIS INSTRUMENTATION FOR AIR QUALITY MEASUREMENT					
	INVESTIGATOR	J. ROESLER	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL		COST	$ 8,000	
366	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	366
	TITLE	DEVELOPMENT OF ANALYTICAL METHODS					
	INVESTIGATOR	E. SAWICKI	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1956	SUPPORT BY INTERNAL		COST	$ 50,000	
367	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	367
	TITLE	AUTO EXHAUST CHEMISTRY STUDIES					
	INVESTIGATOR	J.E.SIGSBY	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL		COST	$ 83,000	
368	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	368
	TITLE	PROVIDENCE, RHODE ISLAND SHORT-TERM AIR QUALITY STUDY					
	INVESTIGATOR	P.W.SLATER	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$ 3,000	
369	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	369
	TITLE	ROAD EMISSION STUDY					
	INVESTIGATOR	R. SMITH	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$ 76,000	
370	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	370
	TITLE	HIGH TEMPERATURE CONTROL STUDIES					
	INVESTIGATOR	P.W.SPAITE	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1959	SUPPORT BY INTERNAL		COST	$ 27,000	

371 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 371
TITLE — ENGINE MODIFICATION STUDIES
INVESTIGATOR — R.C.STAMMAN — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1962 — SUPPORT BY INTERNAL — COST $ 66,000

372 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 372
TITLE — DETERMINE HYDROCARBON CONTENT OF AUTOMOTIVE DIESEL ENGINE BLOWBY GASES
INVESTIGATOR — R.C.STAMMAN — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT — COST $ 6,000

373 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 373
TITLE — NASHVILLE COMMUNITY AIR POLLUTION STUDY
INVESTIGATOR — W.W.STALKER — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1958 — SUPPORT BY INTERNAL — COST $ 40,000

374 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 374
TITLE — B-1-2 COMBUSTION EMISSION SURVEY - POLYNUCLEAR HYDROCARBONS
INVESTIGATOR — R.L.STENBURG — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL — COST $ 44,000

375 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 375
TITLE — SULFUR DIOXIDE INFLUENCE ON AEROSOL PARTICLES IN PHOTOCHEMICAL REACTION
INVESTIGATOR — M.J.STEVENSON — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL — COST $ 25,000

376 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 376
TITLE — NUCLEAR SUBMARINE HABITABILITY STUDY
INVESTIGATOR — E.C.TABOR — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — UNITED STATES NAVY
PROJECT DATA — STARTED 1960 — SUPPORT BY CONTRACT — COST $ 10,000

377 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 377
TITLE — CONTINUOUS AIR MONITORING PROJECT
INVESTIGATOR — E.C.TABOR — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL — COST $155,000

378 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 378
TITLE — PRECIPITATION CHEMISTRY STUDIES
INVESTIGATOR — E.C.TABOR — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1959 — SUPPORT BY INTERNAL — COST $ 30,000

379 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 379
TITLE — NATIONAL AIR SAMPLING NETWORK FOR SUSPENDED PARTICULATE POLLUTANTS
INVESTIGATOR — E.C.TABOR — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1953 — SUPPORT BY INTERNAL — COST $145,000

380 OHIO — PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION — CINCINNATI OHIO 380
TITLE — NATIONAL AIR SAMPLING NETWORK FOR GASEOUS POLLUTANTS
INVESTIGATOR — E.C.TABOR — DAP - USPHS — 4676 COLUMBIA PKWY — CINCINNATI OHIO
SPONSOR — USPHS
PROJECT DATA — STARTED 1949 — SUPPORT BY INTERNAL — COST $ 40,000

381	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	381
	TITLE	GASEOUS CONTROL STUDIES					
	INVESTIGATOR	W.F.TODD	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL		COST	$ 13,000	
382	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	382
	TITLE	FORMULATION OF DISPERSION PATTERNS OVER URBAN AREAS					
	INVESTIGATOR	D.B.TURNER	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1958	SUPPORT BY INTERNAL		COST	$ 27,000	
383	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	383
	TITLE	MATERIALS DETERIORATION					
	INVESTIGATOR	J.B.UPHAM	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$ 35,000	
384	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	384
	TITLE	FORECASTING AIR POLLUTION POTENTIAL					
	INVESTIGATOR	V.O.URBAN	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1956	SUPPORT BY INTERNAL		COST	$ 39,000	
385	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION			CINCINNATI	OHIO	385
	TITLE	EFFECT OF AIR POLLUTANTS ON TISSUE HISTAMINE LEVELS					
	INVESTIGATOR	V.L.ZARATZIAN	DAP - USPHS	4676 COLUMBIA PKWY	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$ 51,000	
386	OHIO	PUBLIC HEALTH SERVICE,DIVISION OF AIR POLLUTION CONTRO			CLEVELAND	OHIO	386
	TITLE	MEASURING AIR POLLUTION BY MEANS OF EXPOSURE PANELS					
	INVESTIGATOR	G.T.CRAIG	DIV AIR POLL CONTRL	14101 LAKE SHORE BLV	CLEVELAND	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1957	SUPPORT BY GRANT		COST	$ 29,000	
387	OHIO	UNIVERSITY OF CINCINNATI			CINCINNATI	OHIO	387
	TITLE	RELATIONSHIP OF ILLNESS AND AIR POLLUTION					
	INVESTIGATOR	T. STERLING	UNIV OF CINCINNATI	EDEN-BETHESDA AVENUE	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1954	SUPPORT BY GRANT		COST	$ 24,000	
388	OHIO	UNIVERSITY OF CINCINNATI			CINCINNATI	OHIO	388
	TITLE	DISTRIBUTION OF LEAD IN AIR OF AMERICAN CITIES					
	INVESTIGATOR	R.A.KEHOE	UNIV OF CINCINNATI	MED COLLEGE -EDEN AV	CINCINNATI	OHIO	
	SPONSOR	ETHYL CORP, E I DUPONT DE NEMOURS + CO, AMER PETROL INST					
	PROJECT DATA	STARTED 1944	SUPPORT BY		COST	$ 75,000	
389	OHIO	UNIVERSITY OF CINCINNATI			CINCINNATI	OHIO	389
	TITLE	EYE IRRITATION FROM IRRADIATED AUTO EXHAUST					
	INVESTIGATOR	M.R.ZAVON	UNIV OF CINCINNATI	EDEN-BETHESDA AVES	CINCINNATI	OHIO	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1961	SUPPORT BY CONTRACT		COST	$ 8,000	
390	OHIO	UNIVERSITY OF TOLEDO			TOLEDO	OHIO	390
	TITLE	THE CONTROL OF AIRBORNE MICRO-ORGANISMS IN AIR CONDITIONING SYSTEMS					
	INVESTIGATOR	A.N.SOLBERG	UNIV OF TOLEDO	2801 W BANCROFT ST	TOLEDO	OHIO	
	SPONSOR						
	PROJECT DATA	STARTED 1952	SUPPORT BY CONTRACT		COST	$ 10,000	

391	OKLAHOMA	JOHN ZINK COMPANY			TULSA	OKLA	391
	TITLE	SAFE AND NON-TOXIC DISPOSAL OF CHEMICAL WASTES					
	INVESTIGATOR	R.D.REED	JOHN ZINK CO	P O BOX 7388	TULSA	OKLA	
	SPONSOR	JOHN ZINK COMPANY					
	PROJECT DATA	STARTED	SUPPORT BY INTERNAL				
392	OREGON	OREGON STATE UNIVERSITY			CORVALLIS	ORE	392
	TITLE	EFFECT OF FLUORIDES ON POLLINATION,DEVELOPMENT,AND YIELDS OF TREE FRUITS					
	INVESTIGATOR	O.C.COMPTON	ORE STATE UNIV		CORVALLIS	ORE	
	SPONSOR	OREGON STATE UNIVERSITY					
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT,INTERNAL		COST	$ 17,000	
393	OREGON	OREGON STATE UNIVERSITY			CORVALLIS	ORE	393
	TITLE	EFFECTS OF AIR POLLUTANTS ON CROPS IN OREGON					
	INVESTIGATOR	O.C.COMPTON	ORE STATE UNIV		CORVALLIS	ORE	
	SPONSOR	OREGON STATE UNIVERSITY					
	PROJECT DATA	STARTED 1948	SUPPORT BY INTERNAL		COST	$ 4,000	
394	OREGON	OREGON STATE UNIVERSITY			CORVALLIS	ORE	394
	TITLE	RAPID DETERMINATION OF NITROGEN OXIDES IN ENGINE EXHAUST					
	INVESTIGATOR	J.R.MINGLE	ORE STATE UNIV		CORVALLIS	ORE	
	SPONSOR	OREGON STATE UNIVERSITY					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$ 1,000	
395	PENNSYLVANIA	AIR PRODUCTS AND CHEMICALS INCORPORATED			ALLENTOWN	PENN	395
	TITLE	ELIMINATION OF SMOKE AND FUMES FROM OXYGEN-STEEL PROCESS					
	INVESTIGATOR	E.F.KURZINSKI	AIR PROD + CHEM INC	P O BOX 538	ALLENTOWN	PENN	
	SPONSOR	AIR PRODUCTS AND CHEMICALS INCORPORATED					
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL				
396	PENNSYLVANIA	ARMSTRONG CORK COMPANY			LANCASTER	PENN	396
	TITLE	GENERAL AIR POLLUTION CONTROL					
	INVESTIGATOR	V.J.GREEN	ARMSTRONG CORK CO	LIBERTY STREET	LANCASTER	PENN	
	SPONSOR	ARMSTRONG CORK COMPANY					
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL				
397	PENNSYLVANIA	BETHLEHEM STEEL COMPANY			BETHLEHEM	PENN	397
	TITLE	CLEANING OF OPEN HEARTH GAS BY HIGH TEMPERATURE FABRIC FILTRATION					
	INVESTIGATOR	H.M.CHAPMAN	BETHLEHEM STEEL CO.		BETHLEHEM	PENN	
	SPONSOR	BETHLEHEM STEEL CO.					
	PROJECT DATA	STARTED 1960	SUPPORT BY INTERNAL		COST	$484,000	
398	PENNSYLVANIA	BETHLEHEM STEEL COMPANY			BETHLEHEM	PENN	398
	TITLE	DEVELOPMENT OF NATURAL COVER ON A TAILINGS DAM					
	INVESTIGATOR	H.M.CHAPMAN	BETHLEHEM STEEL CO.		BETHLEHEM	PENN	
	SPONSOR	BETHLEHEM STEEL CO.					
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL		COST	$123,000	
399	PENNSYLVANIA	BETHLEHEM STEEL COMPANY			BETHLEHEM	PENN	399
	TITLE	INVESTIGATION OF CYANIDE PRODUCTION IN A BLAST FURNACE					
	INVESTIGATOR	H.M.CHAPMAN	BETHLEHEM STEEL CO.		BETHLEHEM	PENN	
	SPONSOR	BETHLEHEM STEEL CO.					
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL		COST	$ 4,000	
400	PENNSYLVANIA	BETHLEHEM STEEL COMPANY			BETHLEHEM	PENN	400
	TITLE	SUPPRESSION OF FUMING					
	INVESTIGATOR	H.M.CHAPMAN	BETHLEHEM STEEL CO.		BETHLEHEM	PENN	
	SPONSOR	BETHLEHEM STEEL CO					
	PROJECT DATA	STARTED 1961	SUPPORT BY INTERNAL		COST	$ 5,000	

401 PENNSYLVANIA — BETHLEHEM STEEL COMPANY — BETHLEHEM PENN 401
TITLE — UTILIZATION OF OPEN HEARTH FUME
INVESTIGATOR — H.M.CHAPMAN — BETHLEHEM STEEL CO.
SPONSOR — BETHLEHEM STEEL CO — BETHLEHEM PENN
PROJECT DATA — STARTED 1960 — SUPPORT BY INTERNAL — COST $ 25,000

402 PENNSYLVANIA — BITUMINOUS COAL RESEARCH INCORPORATED — MONROEVILLE PENN 402
TITLE — METHODS OF DECREASING SULFUR IN STEAM COALS
INVESTIGATOR — R.A.GLENN — BITUM COAL RES INC — 350 MOCHBERG ROAD — MONROEVILLE PENN
SPONSOR — COAL AND ELECTRIC UTILITY INDUSTRIES
PROJECT DATA — STARTED 1958 — SUPPORT BY CONTRACT

403 PENNSYLVANIA — BITUMINOUS COAL RESEARCH INCORPORATED — MONROEVILLE PENN 403
TITLE — CONTROL OF ATMOSPHERIC CONTAMINANTS IN FLUE GASES
INVESTIGATOR — R.A.GLENN — BITUM COAL RES INC — 350 MOCHBERG ROAD — MONROEVILLE PENN
SPONSOR — COAL AND ELECTRIC UTILITY INDUSTRIES
PROJECT DATA — STARTED 1955 — SUPPORT BY CONTRACT

404 PENNSYLVANIA — CARNEGIE INSTITUTE OF TECHNOLOGY — PITTSBURGH PENN 404
TITLE — ADHESION OF DUST AND ELECTRICAL BREAKDOWN REL TO ELECTROSTATIC PRECIPITA
INVESTIGATOR — G.W.PENNEY — CARNEGIE INST TECH — SCHENLEY PARK — PITTSBURGH PENN
SPONSOR — USPHS
PROJECT DATA — STARTED 1959 — SUPPORT BY GRANT — COST $ 27,000

405 PENNSYLVANIA — CHILDRENS HEART HOSPITAL — PHILADELPHIA PENN 405
TITLE — EFFECTS OF FILTERING UNITS ON POLLEN COUNT IN ROOMS OF ASTHMATIC UNIT
INVESTIGATOR — L.S.GIRSH — CHILDRENS HEART HOS — PHILADELPHIA PENN
SPONSOR — CHILDRENS HEART HOSPITAL
PROJECT DATA — STARTED 1962 — SUPPORT BY INTERNAL

406 PENNSYLVANIA — FRANKLIN INSTITUTE — PHILADELPHIA PENN 406
TITLE — CATALYTIC DEGRADATION OF AUTOMOBILE EXHAUST
INVESTIGATOR — R.A.BAKER — FRANKLIN INST — 20TH AND PARKWAY — PHILADELPHIA PENN
SPONSOR
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT

407 PENNSYLVANIA — GULF RESEARCH AND DEVELOPMENT COMPANY — PITTSBURGH PENN 407
TITLE — ADDITIVES TO COMPLETE COMBUSTION OF HYDROCARBONS IN THE ENGINE
INVESTIGATOR — R.S.SPINDT — GULF RES + DEVEL CO — P O DRAWER 2038 — PITTSBURGH PENN
SPONSOR — GULF RESEARCH AND DEVELOPMENT COMPANY
PROJECT DATA — STARTED 1962 — SUPPORT BY OTHER — COST $ 30,000

408 PENNSYLVANIA — KOPPERS COMPANY INCORPORATED — VERONA PENN 408
TITLE — BASIC PROCESSES AND PHENOMENA IN INDUSTRIAL GAS CLEANING
INVESTIGATOR — J.S.LAGARIAS — KOPPERS CO INC — VERONA RESEARCH CENT — VERONA PENN
SPONSOR — KOPPERS COMPANY INCORPORATED
PROJECT DATA — STARTED 1959 — SUPPORT BY INTERNAL — COST $ 15,000

409 PENNSYLVANIA — MINE SAFETY APPLIANCES COMPANY — PITTSBURGH PENN 409
TITLE — DEVELOPMENT OF FILTERS FOR REMOVAL OF CONTAMINANTS FROM STACK EFFLUENTS
INVESTIGATOR — J.P.STRANGE — MINE SAFETY APPL CO — 201 N BRADDOCK AVE — PITTSBURGH PENN
SPONSOR — MINE SAFETY APPLIANCES COMPANY
PROJECT DATA — STARTED — SUPPORT BY INTERNAL — COST $ 37,000

410 PENNSYLVANIA — MINE SAFETY APPLIANCES COMPANY — PITTSBURGH PENN 410
TITLE — DEVELOPMENT OF INSTRUMENTS FOR COMBUSTION CONTROL
INVESTIGATOR — J.P.STRANGE — MINE SAFETY APPL CO — 201 N BRADDOCK AVE — PITTSBURGH PENN
SPONSOR — MINE SAFETY APPLIANCES COMPANY
PROJECT DATA — STARTED 1952 — SUPPORT BY INTERNAL — COST $ 60,000

411 PENNSYLVANIA PENNSYLVANIA DEPARTMENT OF HEALTH HARRISBURG PENN 411
TITLE THE PENNSYLVANIA BERYLLIUM STUDY
INVESTIGATOR V.M.SUSSMAN PENN DEPT HEALTH P O BOX 90 HARRISBURG PENN
SPONSOR USPHS
PROJECT DATA STARTED 1959 SUPPORT BY GRANT COST $ 11,000

412 PENNSYLVANIA PENNSYLVANIA DEPARTMENT OF HEALTH HARRISBURG PENN 412
TITLE AIR QUALITY STANDARDS FOR THE BEAVER AND SCHUYLKILL VALLEY AREAS
INVESTIGATOR V.M.SUSSMAN PENN DEPT HEALTH P O BOX 90 HARRISBURG PENN
SPONSOR PENNSYLVANIA DEPARTMENT OF HEALTH
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL COST $ 20,000

413 PENNSYLVANIA PENNSYLVANIA ELECTRIC COMPANY JOHNSTOWN PENN 413
TITLE METEOROLOGICAL AND AIR CONTAMINATION STUDY
INVESTIGATOR W.A.VERROCHI PENN. ELECTRIC CO. 1001 BROAD ST. JOHNSTOWN PENN.
SPONSOR
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL

414 PENNSYLVANIA PENNSYLVANIA POWER AND LIGHT COMPANY ALLENTOWN PENN 414
TITLE GLASS BAG FILTER CLEANING FLUE GAS FROM PULVERIZED ANTHRACITE BOILER
INVESTIGATOR D.J.CONNELL PA POWER + LIGHT CO ALLENTOWN PENN
SPONSOR PENNSYLVANIA POWER AND LIGHT COMPANY
PROJECT DATA STARTED 1961 SUPPORT BY INTERNAL

415 PENNSYLVANIA PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PK PENN 415
TITLE FLUX OF HEAT AND MOMENTUM IN THE PLANETARY BOUNDARY LAYER
INVESTIGATOR A.K.BLACKADAR PENN STATE UNIV UNIVERSITY PK PENN
SPONSOR GEOPHYSICS RESEARCH DIRECTORATE,AIR FORCE CAMBRIDGE RES LA
PROJECT DATA STARTED 1960 SUPPORT BY CONTRACT

416 PENNSYLVANIA PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PK PENN 416
TITLE SPECTRA AND STRUCTURE OF NITROGEN OXIDES
INVESTIGATOR I.C.HISATSUNE PENN STATE UNIV 6 WHITMORE LAB UNIVERSITY PK PENN
SPONSOR USPHS
PROJECT DATA STARTED 1960 SUPPORT BY GRANT COST $ 10,000

417 PENNSYLVANIA PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PK PENN 417
TITLE HYDROCARBON CONTENT OF THE BLOWBY GASES OF DIESEL ENGINES
INVESTIGATOR W.E.MEYER PENN STATE UNIV UNIVERSITY PK PENN
SPONSOR USPHS
PROJECT DATA STARTED 1961 SUPPORT BY CONTRACT COST $ 5,000

418 PENNSYLVANIA PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PK PENN 418
TITLE RELATION BETWEEN TURBULENCE AND IMPACTION EFFICIENCY IN CYCLONE SEPARATORS
INVESTIGATOR W.E.MEYER PENN STATE UNIV UNIVERSITY PK PENN
SPONSOR USPHS
PROJECT DATA STARTED 1960 SUPPORT BY GRANT,INTERNAL COST $ 8,000

419 PENNSYLVANIA PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PK PENN 419
TITLE STUDY OF WIND STRUCTURE
INVESTIGATOR H. PANOFSKY PENN STATE UNIV UNIVERSITY PK PENN
SPONSOR USPHS
PROJECT DATA STARTED 1960 SUPPORT BY CONTRACT COST $ 30,000

420 PENNSYLVANIA PHILADELPHIA ELECTRIC COMPANY PHILADELPHIA PENN 420
TITLE STUDIES FOR ELIMINATION OR REDUCTION OF CORROSION AND DEPOSITS ON EQUIPMNT
INVESTIGATOR J.L.ALLEN PHILA ELEC CO 900 SANSOM ST PHILADELPHIA PENN
SPONSOR PHILADELPHIA ELECTRIC COMPANY
PROJECT DATA STARTED 1958 SUPPORT BY INTERNAL

421 PENNSYLVANIA SCHUTTE AND KOERTING COMPANY CORNWELLS HGTSPENN 421
TITLE PERFORMANCE AND EFFICIENCY OF VENTURI SCRUBBERS
INVESTIGATOR L.S.HARRIS SCHUTTE.KOERTING CO BUCKS COUNTY CORNWELLS HGTSPENN
SPONSOR SCHUTTE AND KOERTING COMPANY
PROJECT DATA STARTED 1956 SUPPORT BY INTERNAL

422 PENNSYLVANIA SCOTT RESEARCH LABORATORIES, INCORPORATED PERKASIE PENN 422
TITLE DIESEL EXHAUST: COMPOSITION, ODOR AND EYE IRRITATION
INVESTIGATOR R.M.LINNELL SCOTT RES LABS, INC P O BOX 66 PERKASIE PENN
SPONSOR USPHS
PROJECT DATA STARTED 1959 SUPPORT BY GRANT,CONTRACT COST $ 69,000

423 PENNSYLVANIA SCOTT RESEARCH LABORATORIES, INCORPORATED PERKASIE PENN 423
TITLE AEROSOL FORMATION IN HYDROCARBON, SULFUR DIOXIDE, + NITROGEN OXIDE SYSTEMS
INVESTIGATOR R.M.LINNELL SCOTT RES LABS, INC P O BOX 66 PERKASIE PENN
SPONSOR
PROJECT DATA STARTED 1959 SUPPORT BY CONTRACT

424 PENNSYLVANIA SCOTT RESEARCH LABORATORIES, INCORPORATED PERKASIE PENN 424
TITLE SURVEY OF EMISSIONS FROM FUEL OIL COMBUSTION
INVESTIGATOR F.R.TAYLOR SCOTT RES LABS, INC P O BOX 66 PERKASIE PENN
SPONSOR
PROJECT DATA STARTED 1961 SUPPORT BY CONTRACT COST $ 48,000

425 PENNSYLVANIA SUN OIL COMPANY PHILADELPHIA PENN 425
TITLE SAMPLING AND ANALYSIS OF SULFUR OXIDES IN STACK GASES
INVESTIGATOR M.F.ELKIN SUN OIL CO 1608 WALNUT STREET PHILADELPHIA PENN
SPONSOR MULTI-COMPANY VENTURE
PROJECT DATA STARTED 1958 SUPPORT BY OTHER

426 PENNSYLVANIA THERMAL RESEARCH AND ENGINEERING CORPORATION CONSHOHOCKEN PENN 426
TITLE TESTING OF INDUSTRIAL WASTE INCINERATOR SYSTEMS
INVESTIGATOR G. BITTERLICH THERM RES, ENGR COR CONSHOHOCKEN PENN
SPONSOR
PROJECT DATA STARTED SUPPORT BY CONTRACT COST $ 10,000

427 PENNSYLVANIA UNITED STATES BUREAU OF MINES,DEP. OF THE INTERIOR PITTSBURGH PENN 427
TITLE REMOVAL OF SULFUR DIOXIDE FROM FLUE GASES
INVESTIGATOR D. BIENSTOCK US BUREAU OF MINES 4800 FORBES AVE PITTSBURGH PENN
SPONSOR USPHS
PROJECT DATA STARTED 1957 SUPPORT BY CONTRACT COST $ 70,000

428 PENNSYLVANIA UNIVERSITY OF PENNSYLVANIA PHILADELPHIA PENN 428
TITLE RELATION OF AIRWAY RESISTANCE TO HEART STRAIN
INVESTIGATOR A.B.DUBOIS UNIV OF PENN PHILADELPHIA PENN
SPONSOR USPHS
PROJECT DATA STARTED 1960 SUPPORT BY GRANT

429 PENNSYLVANIA UNIVERSITY OF PITTSBURGH PITTSBURGH PENN 429
TITLE ADHESION AND REENTRAINMENT OF SOLID PARTICLES
INVESTIGATOR M. CORN UNIV OF PITTSBURGH PITTSBURGH PENN
SPONSOR
PROJECT DATA STARTED 1962 SUPPORT BY GRANT COST $ 25,000

430 PENNSYLVANIA UNIVERSITY OF PITTSBURGH PITTSBURGH PENN 430
TITLE APPLICATION OF ELECTROCHROMATOGRAPHY TO INDUSTRIAL HYGIENE AND AIR POLL
INVESTIGATOR W.H.HILL UNIV OF PITTSBURGH GRAD SCH PUB HEALTH PITTSBURGH PENN
SPONSOR USPHS
PROJECT DATA STARTED 1957 SUPPORT BY GRANT COST $ 7,000

431	RHODE ISLAND	CONSULTING RESEARCH ENGINEERS			PROVIDENCE	RI	431
	TITLE	ASPHALT, RUBBER CURING, PLASTICIZER AND RESIN EFFLUENTS					
	INVESTIGATOR	L.C.MANDELL	CONSULTING RES ENGR	66 PITMAN STREET	PROVIDENCE	RI	
	SPONSOR						
	PROJECT DATA	STARTED 1962	SUPPORT BY CONTRACT				
432	SOUTH CAROLINA	CLEMSON COLLEGE CHEMICAL ENGINEERING DEPARTMENT			CLEMSON	SC	432
	TITLE	TEMPERATURE MECHANISM IN ATMOSPHERIC OXIDATION PROCESSES					
	INVESTIGATOR	F.C.ALLEY	CLEMSON COL		CLEMSON	SC	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1962	SUPPORT BY GRANT		COST	$ 17,000	
433	TENNESSEE	TENNESSEE VALLEY AUTHORITY			CHATTANOOGA	TENN	433
	TITLE	FULL-SCALE STUDY OF DISPERSION OF STACK GASES					
	INVESTIGATOR	F.E.GARTRELL	TENN VALLEY AUTH	715 EDNEY BUILDING	CHATTANOOGA	TENN	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1957	SUPPORT BY CONTRACT		COST	$ 8,000	
434	TENNESSEE	VANDERBILT UNIVERSITY			NASHVILLE	TENN	434
	TITLE	MODE AND LOCUS OF ACTION AND THE CHRONIC EFFECTS OF SULFUR DIOXIDE					
	INVESTIGATOR	G.R.MENEELY	VANDERBILT UNIV		NASHVILLE	TENN	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1957	SUPPORT BY CONTRACT		COST	$ 31,000	
435	TENNESSEE	VANDERBILT UNIVERSITY			NASHVILLE	TENN	435
	TITLE	AIR POLLUTION AND COMMUNITY HEALTH - NASHVILLE - A PROTOTYPE STUDY					
	INVESTIGATOR	L.D.ZEIDBERG	VANDERBILT UNIV		NASHVILLE	TENN	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1958	SUPPORT BY CONTRACT		COST	$ 73,000	
436	TEXAS	BAYLOR UNIVERSITY			HOUSTON	TEX	436
	TITLE	CARBON ADSORPTION OF AIR POLLUTANTS					
	INVESTIGATOR	D.E.JENKINS	BAYLOR U - MED COLL		HOUSTON	TEX	
	SPONSOR						
	PROJECT DATA	STARTED 1960	SUPPORT BY GRANT		COST	$ 42,000	
437	TEXAS	BAYLOR UNIVERSITY			HOUSTON	TEX	437
	TITLE	INFLUENCE OF ENVIRONMENTAL FACTORS ON LUNG MORPHOLOGY OF MICE					
	INVESTIGATOR	D.E.JENKINS	BAYLOR UNIV		HOUSTON	TEX	
	SPONSOR						
	PROJECT DATA	STARTED 1961	SUPPORT BY GRANT		COST	$ 42,000	
438	TEXAS	NORTH TEXAS STATE UNIVERSITY			DENTON	TEX	438
	TITLE	VIABLE SPECIES OF ALGAE AND PROTOZOA IN THE ATMOSPHERE					
	INVESTIGATOR	H.E.SCHLICHTING	NO TEX ST UNIV		DENTON	TEX	
	SPONSOR	USPHS					
	PROJECT DATA	STARTED 1959	SUPPORT BY GRANT		COST	$ 5,000	
439	TEXAS	PETRO-TEX CHEMICAL CORPORATION			HOUSTON	TEX	439
	TITLE	SCRUBBER STACK STUDIES					
	INVESTIGATOR	W.B.CHENAULT	PETRO-TEX CHEM CORP	P O BOX 2344	HOUSTON	TEX	
	SPONSOR	PETRO-TEX CHEMICAL CORPORATION					
	PROJECT DATA	STARTED 1962	SUPPORT BY INTERNAL		COST	$ 25,000	
440	TEXAS	SOUTHWEST RESEARCH INSTITUTE			SAN ANTONIO	TEX	440
	TITLE	MEASUREMENTS OF DIESEL ENGINE EMISSIONS					
	INVESTIGATOR	H.C.MCKEE	SW RES INST	8500 CULEBRA ROAD	SAN ANTONIO	TEX	
	SPONSOR	SW RES INST					
	PROJECT DATA	STARTED	SUPPORT BY CONTRACT,INTERNAL				

441 TEXAS — TEXAS A AND M COLLEGE
TITLE — ENVIRONMENTAL POLLUTION MISSILE PROPELLANTS
INVESTIGATOR — W.W.MECK — TEXAS A AND M COL
SPONSOR — USPHS, TEXAS A AND M COLLEGE
PROJECT DATA — STARTED 1958 — SUPPORT BY CONTRACT,INTERNAL
COLLEGE STATN TEX 441
COLLEGE STATN TEX
COST $ 35,000

442 TEXAS — TEXAS A AND M COLLEGE
TITLE — SELECTED AIR POLLUTANTS AFFECTING PLANTS AND HEALTH
INVESTIGATOR — W.W.MECK — TEXAS A AND M COL
SPONSOR — USPHS, TEXAS A AND M COLLEGE
PROJECT DATA — STARTED 1959 — SUPPORT BY GRANT
COLLEGE STA TEX 442
COLLEGE STA TEX
COST $ 25,000

443 TEXAS — UNIVERSITY OF TEXAS
TITLE — DISPERSAL AND COLONIZATION BY SMALL AQUATIC ORGANISMS
INVESTIGATOR — B. MAGUIRE — UNIV OF TEXAS — DEPT OF ZOOLOGY
SPONSOR — NATIONAL SCIENCE FEDERATION
PROJECT DATA — STARTED 1958 — SUPPORT BY GRANT
AUSTIN TEX 443
AUSTIN TEX
COST $ 7,000

444 TEXAS — UNIVERSITY OF TEXAS
TITLE — RELATION BETWEEN SOILING INDEX AND ATMOSPHERIC BETA RADIOACTIVITY
INVESTIGATOR — G.F.SHAW — UNIV OF TEXAS — 305 ENGINEERING LABS
SPONSOR — UNIV OF TEXAS
PROJECT DATA — STARTED 1962 — SUPPORT BY GRANT,INTERNAL
AUSTIN TEX 444
AUSTIN TEX
COST $ 4,000

445 TEXAS — UNIVERSITY OF TEXAS
TITLE — BIOCHEMICAL EFFECTS OF SIMULATED AIR POLLUTANTS
INVESTIGATOR — F.L.ESTES — UNIV OF TEXAS
SPONSOR — USPHS
PROJECT DATA — STARTED 1956 — SUPPORT BY GRANT
GALVESTON TEX 445
GALVESTON TEX
COST $ 28,000

446 UTAH — KENNECOTT COPPER CORPORATION - UTAH COPPER DIVISION
TITLE — INSTRUMENTATION TO DETERMINE GASES AND PARTICULATES IN THE ATMOSPHERE
INVESTIGATOR — R.J.MEANEY — KENNECOTT CU CORP — P O BOX 1650
SPONSOR — KENNECOTT COPPER CORPORATION
PROJECT DATA — STARTED 1961 — SUPPORT BY INTERNAL
SALT LAKE CITYUTAH 446
SALT LAKE CITYUTAH
COST $ 2,000

447 UTAH — UNIVERSITY OF UTAH
TITLE — THE DEPENDENCE OF TURBULENCE ON WEATHER PARAMETERS
INVESTIGATOR — D.R.DICKSON — UNIV OF UTAH
SPONSOR — USPHS
PROJECT DATA — STARTED 1960 — SUPPORT BY GRANT
SALT LAKE CITYUTAH 447
SALT LAKE CITYUTAH
COST $ 15,000

448 UTAH — UNIVERSITY OF UTAH
TITLE — THE EFFECTS OF FLUORIDES ON BASIC PLANT PROCESSES
INVESTIGATOR — I. MCNULTY — UNIV OF UTAH
SPONSOR — USPHS
PROJECT DATA — STARTED 1961 — SUPPORT BY GRANT
SALT LAKE CITYUTAH 448
SALT LAKE CITYUTAH
COST $ 18,000

449 UTAH — UNIVERSITY OF UTAH
TITLE — EFFECTS OF AIR POLLUTANTS ON PLANT DISEASE
INVESTIGATOR — M. TRESHOW — UNIV OF UTAH
SPONSOR — USPHS
PROJECT DATA — STARTED 1962 — SUPPORT BY GRANT
SALT LAKE CITYUTAH 449
SALT LAKE CITYUTAH
COST $ 17,000

450 UTAH — UTAH STATE UNIVERSITY
TITLE — FLUOROSIS IN PLANTS AND ANIMALS
INVESTIGATOR — W. THORNE — UTAH STATE UNIV
SPONSOR — USPHS, STATE OF UTAH
PROJECT DATA — STARTED 1951 — SUPPORT BY GRANT,INTERNAL
LOGAN UTAH 450
LOGAN UTAH
COST $ 27,000

451 UTAH
TITLE UTAH STATE UNIVERSITY
INVESTIGATOR EFFECTS OF FLUORIDES ON CERTAIN ENZYMES OF SELECTED PLANT AND ANIMAL TISSUE LOGAN UTAH 451
SPONSOR W. THORNE UTAH STATE UNIV
PROJECT DATA USPHS, STATE OF UTAH LOGAN UTAH
STARTED 1955 SUPPORT BY INTERNAL
COST $ 10,000

452 VIRGINIA
TITLE VIRGINIA POLYTECHNIC INSTITUTE
INVESTIGATOR SOME NEW AZA-DIBENZOPYRENES BLACKSBURG VA 452
SPONSOR F.A.VINGIELLO VA POLYTECH INST
PROJECT DATA USPHS BLACKSBURG VA
STARTED 1962 SUPPORT BY GRANT
COST $ 9,000

453 WASHINGTON
TITLE HANFORD LABORATORIES
INVESTIGATOR ATMOSPHERIC TRANSPORT, DIFFUSION, DEPOSITION AND EROSION STUDIES RICHLAND WASH 453
SPONSOR J.J.FUQUAY HANFORD LABS
PROJECT DATA USAEC RICHLAND WASH
STARTED 1951 SUPPORT BY CONTRACT
COST $234,000

454 WASHINGTON
TITLE UNIVERSITY OF WASHINGTON
INVESTIGATOR RESEARCH AND DEVELOPMENT OF METEOROLOGICAL INSTRUMENTS SEATTLE WASH 454
SPONSOR F.I.BADGLEY UNIV OF WASH
PROJECT DATA USAEC SEATTLE WASH
STARTED 1961 SUPPORT BY INTERNAL
COST $ 18,000

455 WASHINGTON
TITLE WASHINGTON STATE HEALTH DEPARTMENT
INVESTIGATOR HI VOLUME FILTER PREWEIGHING PROCEDURE SEATTLE WASH 455
SPONSOR R.L.STOCKMAN WASH ST HEAL DEPT 1510 SMITH TOWER
PROJECT DATA WASHINGTON STATE HEALTH DEPARTMENT SEATTLE WASH
STARTED 1961 SUPPORT BY INTERNAL

456 WASHINGTON
TITLE WASHINGTON STATE HEALTH DEPARTMENT
INVESTIGATOR HI VOLUME SAMPLER CALIBRATION SEATTLE WASH 456
SPONSOR R.L.STOCKMAN WASH ST HEAL DEPT 1510 SMITH TOWER
PROJECT DATA USPHS SEATTLE WASH
STARTED 1962 SUPPORT BY GRANT
COST $ 4,000

457 WASHINGTON
TITLE WASHINGTON STATE UNIVERSITY
INVESTIGATOR PULP MILL RESEARCH PULLMAN WASH 457
SPONSOR D.F.ADAMS WASH STATE UNIV
PROJECT DATA NATIONAL COUNCIL FOR STREAM IMPROVEMENT PULLMAN WASH
STARTED 1957 SUPPORT BY GRANT
COST $ 15,000

458 WASHINGTON
TITLE WASHINGTON STATE UNIVERSITY
INVESTIGATOR BIOCHEMICAL RESPONSE OF PLANT TISSUE TO HF FUMIGATION PULLMAN WASH 458
SPONSOR D.F.ADAMS WASH STATE UNIV
PROJECT DATA USPHS PULLMAN WASH
STARTED 1956 SUPPORT BY GRANT
COST $ 14,000

459 WASHINGTON
TITLE WASHINGTON STATE UNIVERSITY
INVESTIGATOR ANALYSES AND TREATMENT OF SULFATE PULPING EMISSIONS(D.F.ADAMS) PULLMAN WASH 459
SPONSOR D.F.ADAMS WASH STATE UNIV
PROJECT DATA NATIONAL COUNCIL FOR STREAM IMPROVEMENT PULLMAN WASH
STARTED 1957 SUPPORT BY GRANT
COST $ 15,000

460 WASHINGTON
TITLE WASHINGTON STATE UNIVERSITY
INVESTIGATOR ENVIRONMENTAL STRESS FACTORS VS FLUORIDE SENSITIVITY PLANTS PULLMAN WASH 460
SPONSOR D.F.ADAMS WASH STATE UNIV
PROJECT DATA PULLMAN WASH
STARTED 1958 SUPPORT BY GRANT
COST $ 4,000

461 WASHINGTON — WASHINGTON STATE UNIVERSITY — PULLMAN WASH 461
TITLE — MODE OF ATMOSPHERIC FLUORIDE UPTAKE BY FOLIAGE
INVESTIGATOR — D.F.ADAMS — WASH STATE UNIV — PULLMAN WASH
SPONSOR
PROJECT DATA — STARTED 1961 — SUPPORT BY GRANT — COST $ 4,000

462 WASHINGTON — WASHINGTON STATE UNIVERSITY — PULLMAN WASH 462
TITLE — AREA AIR POLLUTION SURVEY
INVESTIGATOR — D.F.ADAMS — WASH STATE UNIV — PULLMAN WASH
SPONSOR
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT

463 WASHINGTON — WASHINGTON STATE UNIVERSITY — PULLMAN WASH 463
TITLE — PLANT PRE-OPERATIONAL SURVEY
INVESTIGATOR — D.F.ADAMS — WASH STATE UNIV — PULLMAN WASH
SPONSOR
PROJECT DATA — STARTED 1961 — SUPPORT BY CONTRACT

464 WASHINGTON — WASHINGTON STATE UNIVERSITY — PUYALLUP WASH 464
TITLE — SURVEY OF ATMOSPHERIC FLUORIDE BY MEANS OF LIME TREATED FILTER PAPERS
INVESTIGATOR — V.L.MILLER — WASH STATE UNIV — W WASH EXP STA — PUYALLUP WASH
SPONSOR — WASHINGTON STATE UNIVERSITY
PROJECT DATA — STARTED 1945 — SUPPORT BY INTERNAL

465 WEST VIRINIA — UNION CARBIDE CHEMICALS COMPANY — S CHARLESTON WVA 465
TITLE — BAGHOUSE COLLECTOR FOR FLY ASH FROM FLUE GASES OF COAL-FIRED BOILER
INVESTIGATOR — O.C.THOMPSON — UNION CARBD CHEM CO — S CHARLESTON WVA
SPONSOR — UNION CARBIDE CHEMICALS COMPANY
PROJECT DATA — STARTED — SUPPORT BY

466 WISCONSIN — UNIVERSITY OF WISCONSIN - DEPARTMENT OF BIOCHEMISTRY — MADISON WIS 466
TITLE — TOLERANCE OF DAIRY COWS FOR A DIETARY SOLUBLE FLUORINE CARRIER
INVESTIGATOR — P.H.PHILLIPS — UNIV OF WISCONSIN — MADISON WIS
SPONSOR — INDUSTRIAL SUPPORT
PROJECT DATA — STARTED 1948 — SUPPORT BY GRANT,OTHER — COST $ 21,000

SECTION 3

SUBJECT INDEX TO PROJECTS

In selecting the research subject areas, an attempt was made to keep the number of subjects to a minimum. In classifying projects into appropriate research subject areas, some difficulty was encountered. In a few cases, the reported description of the project was not sufficient for unambiguous classification; in a few others, the number and brief descriptions of the research subject areas was not sufficient for definite classification.

Research subject areas are listed alphabetically. Projects, listed alphabetically by title in each subject area, are referenced by Project Number to the listing of projects in Section 2.

Research subject areas used for classification are as follows:

Agriculture
Air Pollution Surveys and Survey Techniques
Atmospheric Monitoring and Network Operations
Biochemical
Chemistry and Physics of the Atmosphere
Control Devices or Methods
Demographic
Epidemiologic
Epizootiologic
Gaseous Pollutant Sampling and Analysis
Instrumentation Development
Meteorology
Miscellaneous Effects (Corrosion, odors, particulate retention, etc.)
Miscellaneous Studies (Economics, statistics, legal, etc.)
Particulate Sampling and Analysis
Physiologic-pathologic (animal)
Physiologic-pathologic (man)
Radioactivity
Source and Source Emission Studies
Toxicologic

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- FIGURE 1 -

AIR POLLUTION RESEARCH PROJECTS ACTIVE DURING CALENDAR YEAR 1962
Note: Please make separate report on each project

Return to: Mr. J.D. Sensenbaugh
Chairman, Subcommittee on Research, ASME Committee on
Air Pollution Controls
Combustion Engineering, Inc.
Windsor, Connecticut

1. If you have no active air pollution research projects during 1962, please check box below, complete Items 2-4, and return report in the enclosed envelope.
No active projects in 1962 ☐

2. Reported by: _____ Date _____
Name and Title

3. Organization: _____

4. Address: _____

5. Investigator or Director: _____

6. Title and brief description of project (continue on back of report if necessary):

7. Original starting date of project: _____

8. Project Support: Grant _____, Contract _____, Internal Funds _____
Other (specify) _____

9. Amount of support (if reportable) on yearly basis for 1962 (report to nearest thousand dollars): _____

10. Research is reported in: Progress Reports _____
Publications _____

Please indicate, on the back of one of the report forms submitted names of additional individuals in your organization who should be contacted.

Additional report forms are available from Chairman, Subcommittee on Research, ASME Committee on Air Pollution Controls (address above).

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